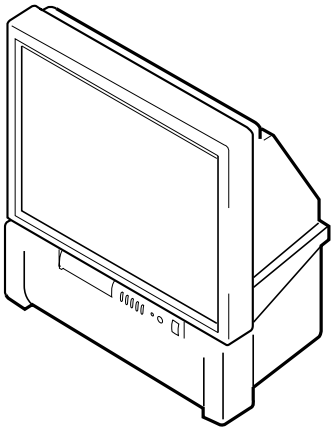
Self Diagnosis Supported model

SERVICE MANUAL RG-3A CHASSIS

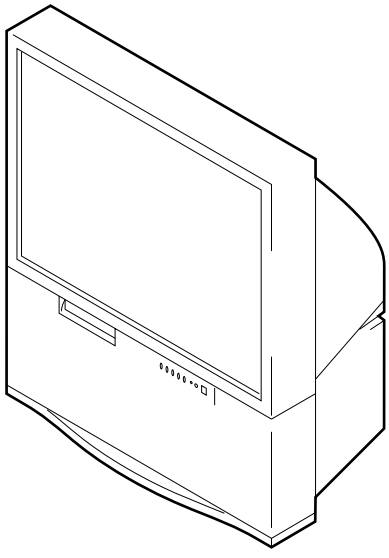
MODEL	COMMANDER	DEST.	CHASSIS NO.
KP-ER43M31	RM-961	AUS	SCC-P87A-A
KP-ER43M61	RM-961	GE	SCC-P85A-A
KP-ER43M90	RM-961	HK	SCC-P84A-A
KP-ER43M91	RM-961	ME	SCC-P86A-A

MODEL	COMMANDER	DEST.	CHASSIS NO.
KP-ER53M31	RM-961	AUS	SCC-P87B-A
KP-ER53M61	RM-961	GE	SCC-P85B-A
KP-ER53M90	RM-961	HK	SCC-P84B-A
KP-ER53M91	RM-961	ME	SCC-P86B-A

RM-961



KP-ER43M31/ER43M61
/ER43M90/ER43M91



KP-ER53M31/ER53M61
/ER53M90/ER53M91

PROJECTION TV

SONY®

SPECIFICATIONS

	KP-ER53M90/KP-ER53M91 KP-ER53M61/KP-ER53M31	KP-ER43M90/KP-ER43M91 KP-ER43M61/KP-ER43M31
Projection system	3 picture tubes, 3 lenses, horizontal inline system	
Picture tube	7 inch high-brightnes monochorome tubes (6.3 raster size), with optical coupling and liquidcooling system	
Projection lenses	High performance, large-diameter highbrid lens F1.0	
Screen size	53 inches	43 inches
Television system	B/G, I, D/K, M	
Color system	PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58	
Stereo/Bilingual system	NICAM Stereo/Bilingual B/G, I; A2 Stereo/Bilingual (German) B/G	
Channel coverage		
B/G	VHF : E2 to E12 / UHF : E21 to E69 / CATV : S01 to S03, S1 to S41	
I	UHF : B21 to B68 / CATV : S01 to S03, S1 to S41	
D/K	VHF : C1 to C12, R1 to R12 / UHF : C13 to C57, R21 to R60 / CATV : S01 to S03, S1 to S41, Z1 to Z39	
M	VHF : A2 to A13 / UHF : A14 to A79/ CATV : A-8 to A-2, A to W+4, W+6 to W+84	
(Antenna)	75-ohm external terminal	
Audio output (Speaker)	15W + 15W (10% distortion)	
Number of terminal		
(Video)	Input: 4 Output: 1	Phono jacks; 1 Vp-p, 75 ohms
(Audio)	Input: 4 Output: 1	Phono jacks; 500 mVrms
(S Video)	Input: 2	Y: 1 Vp-p, 75 ohms, unbalanced, sync negative C: 0.286 Vp-p, 75 ohms
(Component Video)	Input: 1	Phono jacks Y: 1 Vp-p, 75 ohms, sync negative C_B/B-Y: 0.7 Vp-p, 75 ohms C_R/R-Y: 0.7 Vp-p, 75 ohms Audio: 500 mVrms
	Output: 1	Phono jack; 500 mVrms
(Headphones)	Output: 1	Stereo minijack
Power requirements	110 V – 240 V (KP-ER53M91/KP-ER43M91/KP-ER53M61/KP-ER43M61) 220 V – 240 V (KP-ER53M90/KP-ER43M90/KP-ER53M31/KP-ER43M31)	
Power consumption (W)	270 W (KP-ER53M91/KP-ER43M91/KP-ER53M61/KP-ER43M61) 255 W (KP-ER53M90/KP-ER43M90/KP-ER53M31/KP-ER43M31)	
Dimensions (w/h/d, mm)	1180 × 1427 × 623	966 × 1074 × 505
Mass (kg)	79	60

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF HTE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SECTION 1
SELF DIAGNOSIS FUNCTION

The unit in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER lamp will automatically begin to flash.
The number of times the lamp flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER lamp flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

1-1. DIAGNOSTIC TEST INDICATORS

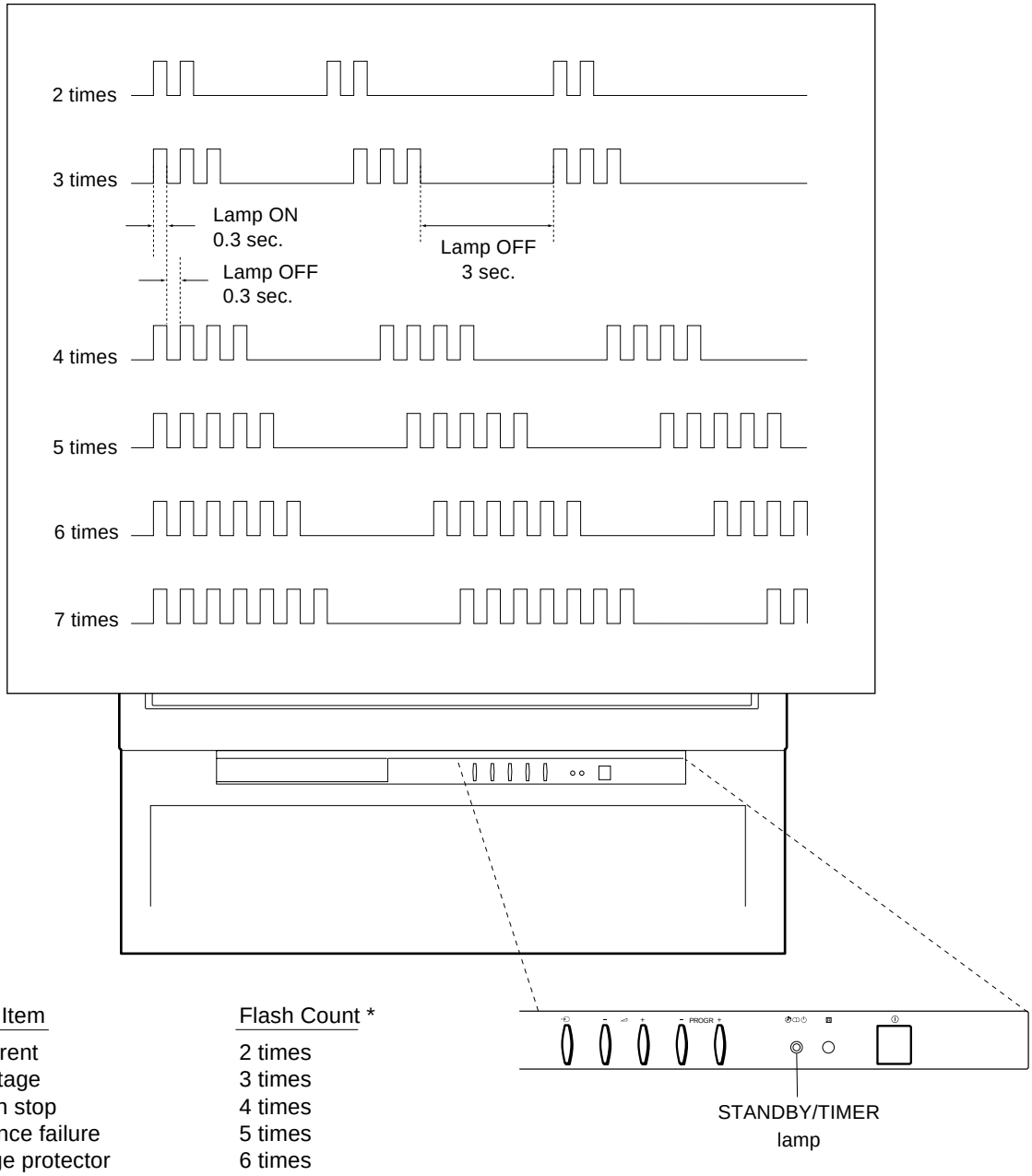
When an errors occurs, the STANDBY/TIMER lamp will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

Result for all of the following diagnostic items are displayed on screen. No error has occurred if the screen displays a “0”.

Diagnostic Item Description	No. of times STANDBY/TIMER lamp flashes	Self-diagnostic display/ Diagnostic result	Probable Cause Location	Detected Symptoms
• Power does not turn on	Does not light	_____	• Power cord is not plugged in. • Fuse (F6001) is burned out. (G, G1 board)	• Power does not come on. • No power is supplied to the PJ. • AC power supply is faulty.
• +B overcurrent (OCP)	2 times	002:000 or 002:001 ~ 255	• H. OUT Q5104 is shorted. • H. LIN Q5105 is shorted. (D board)	• Power does not come on. • Load on power line is shorted.
• +B overvoltage (OVP)	3 times	003:000 or 003:001 ~ 255	• IC6002 faulty. • 10.5 V is not supplied. (G, G1 board)	• Power does not come on.
• Vertical deflection failure	4 times	004:000 or 004:001 ~ 255	• V. OUT IC5302 faulty. • R5340 open • R5341 open (D board)	• Vertical deflection pulse is stopped. • Vertical size is too small. • Vertical deflection stopped.
• White balance failure (no PICTURE)	5 times	005:000 or 005:001 ~ 255	• G2 is improperly adjusted. (Note 1) • CRT problem. • Video OUT IC7101 (CR board), IC7201 (CG board), IC7301 (CB board) are faulty. • IC8306 (J1 board) and IC4301 (E board) are faulty. • No connection E board to CR board.	• No raster is generated. • CRT cathode current detection reference pulse output is small.
• High Voltage failure	6 times	006:000 or 006:001 ~ 255	• IC6301 (G, G1 bard) faulty.	• +135 V is too high.
• Audio Protection	7 times	007:000 or 007:001 ~ 255	• Power supply fails. • IC1101 (A1 board) faulty.	• There is picture but speaker does not release sound.
• Micro reset	_____	101:000 or 101:001 ~ 255	•Discharge CRT (CR, CG, CB boards) • Static discharge • External noise	• Power is shut down shortly, after this return back to normal. • Detect Micro latch up.

Note 1 : Refer to screen (G2) adjustment in section 4-2 of this manual.

1-2. DISPLAY OF STANDBY/TIMER LIGHT FLASH COUNT



Diagnostic Item	Flash Count *
+B overcurrent	2 times
+B overvoltage	3 times
V deflection stop	4 times
White balance failure	5 times
High voltage protector	6 times
Audio Protection	7 times

* One flash count is not used for self-diagnostic.

1-3. STOPPING THE STANDBY/TIMER FLASH

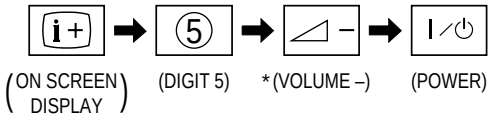
Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER lamp from flashing.

1-4. SELF-DIAGNOSTIC SCREEN DISPLAY

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurrences of failure for confirmation on the screen:

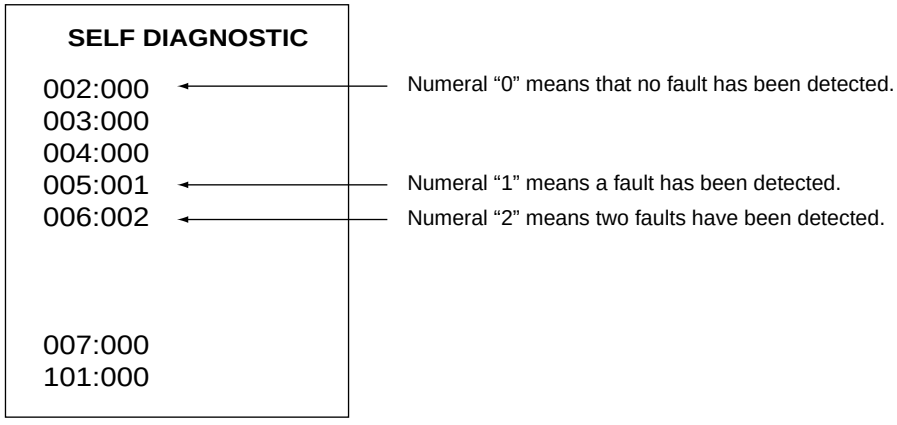
[To Bring Up Screen Test]

In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:



* : Note that this differs from entering the service mode (volume +)

Self-Diagnosis screen display



1-5. HANDLING OF SELF-DIAGNOSTIC SCREEN DISPLAY

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to “0”.

Unless the result display is cleared to “0”, the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

[Clearing the result display]

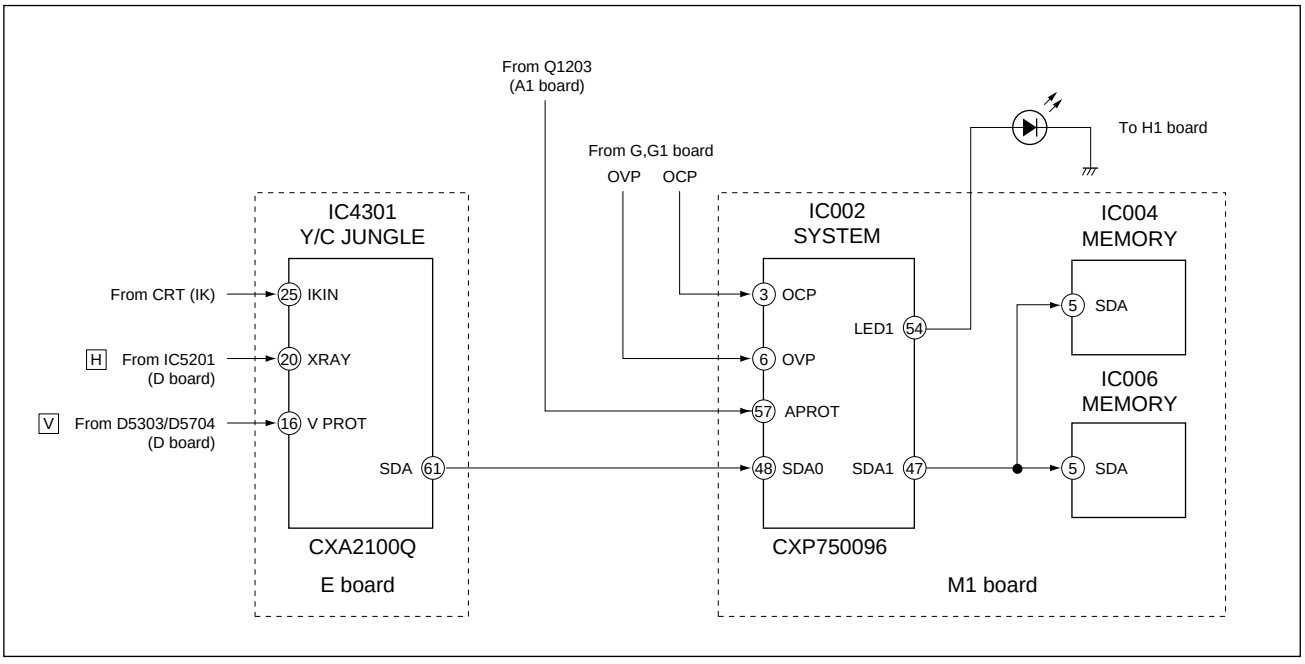
To clear the result display to “0”, press button on the remote commander sequentially as shown below when the diagnostic screen is being displayed.

Press “⑧” button
(It will indicate “CLEAR” on the screen.)
➡
Press “⓪” button
(The “CLEAR” display change to red color.)

[Quitting Self-diagnostic screen]

To quit the entire self-diagnostic screen, turn off the power switch on the remote commander or the main unit.

1-6. SELF-DIAGNOSTIC CIRCUIT

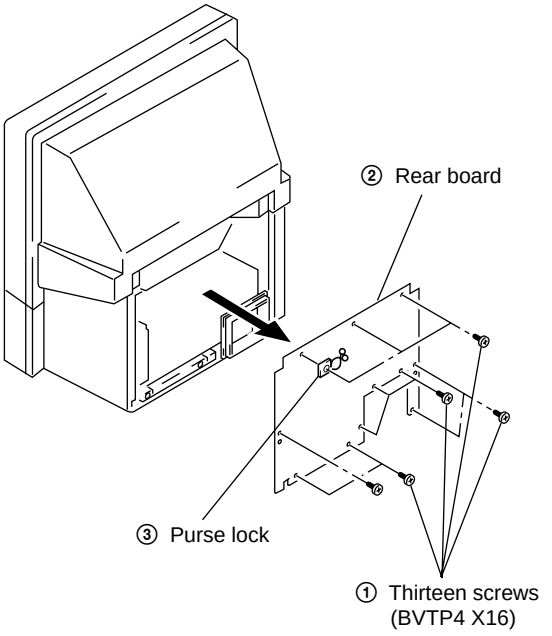


+B overcurrent (OCP)	Occurs when an overcurrent on the +B (135 V) line is detected by Q6303. If Q6303 go to ON, the voltage to pin 3 of IC002 go to UP. The unit will automatically turn off.
+B overvoltage (OVP)	Occurs when an overvoltage on the +B (135 V) line is detected by D6318. If D6318 go to ON, then voltage to pin 6 of IC002 go to UP. The unit will automatically turn off.
Vertical deflection failure	Occurs when an absence of the vertical deflection pulse is detected by Q5302, Q5303, and D5303. Shut down the power supply.
White balance failure	If the RGB levels do not balance or become low level within 5 seconds. This error will be detected by IC4301. TV will stay on, but there will be no picture.
High voltage protector of Horizontal Deflection	Occurs when an overvoltage of horizontal pulse is detected by D5115 and IC5201. If the voltage of pin 1 of IC5201 goes to High, the voltage to pin 20 of IC4301 go to UP. The unit will automatically turn off.
Audio Protector	If the Audio out lines become DC.This error will be detected by Q1202, Q1204 and Q1203. The unit will automatically turn off.

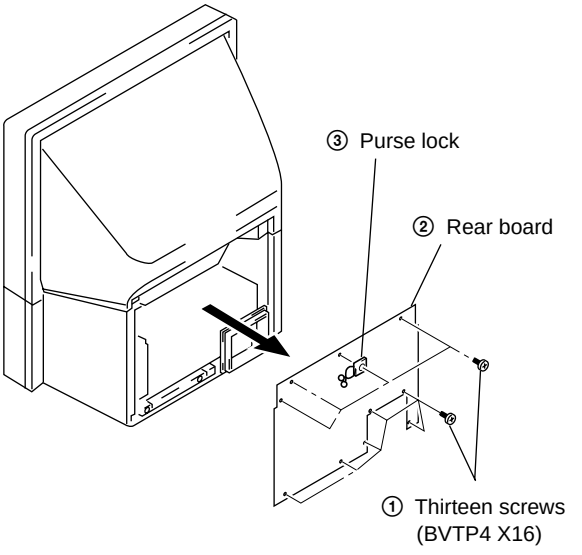
SECTION 2
DISASSEMBLY

2-1. REAR BOARD REMOVAL

(1) KP-ER43

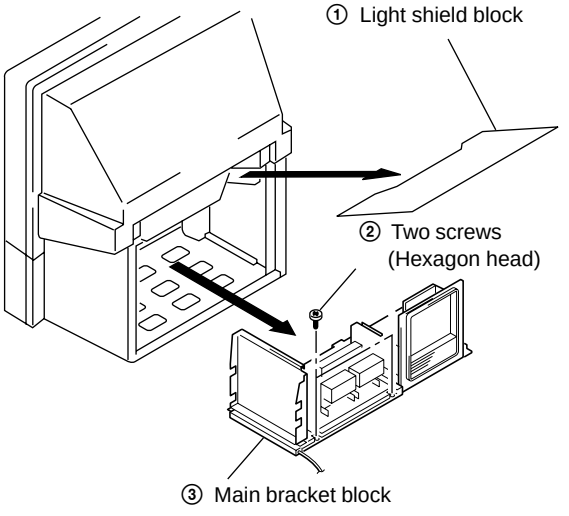


(2) KP-ER53

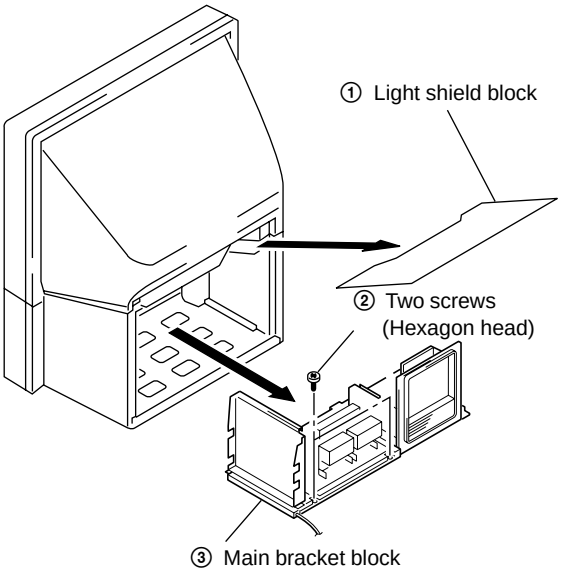


2-2. MAIN BRACKET BLOCK REMOVAL

(1) KP-ER43

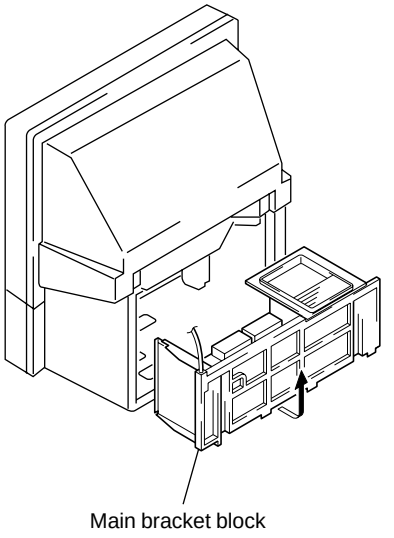


(2) KP-ER53

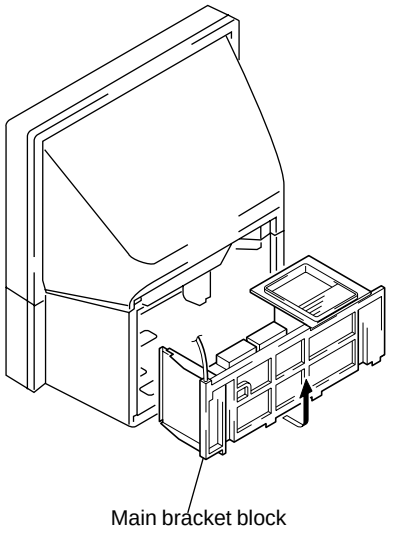


2-3. SERVICE POSITION

(1) KP-ER43

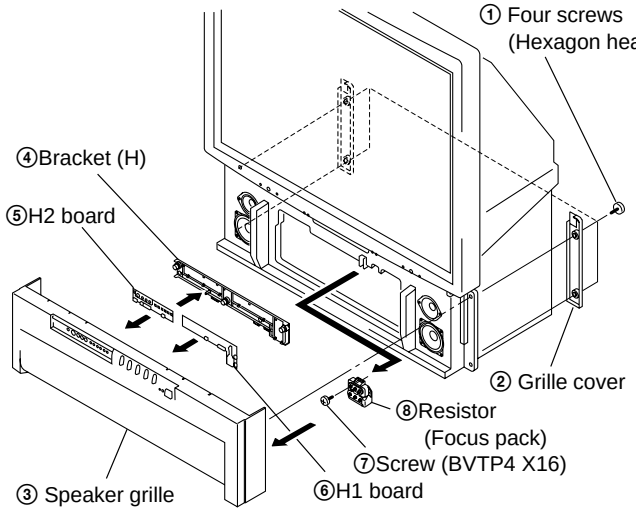


(2) KP-ER53

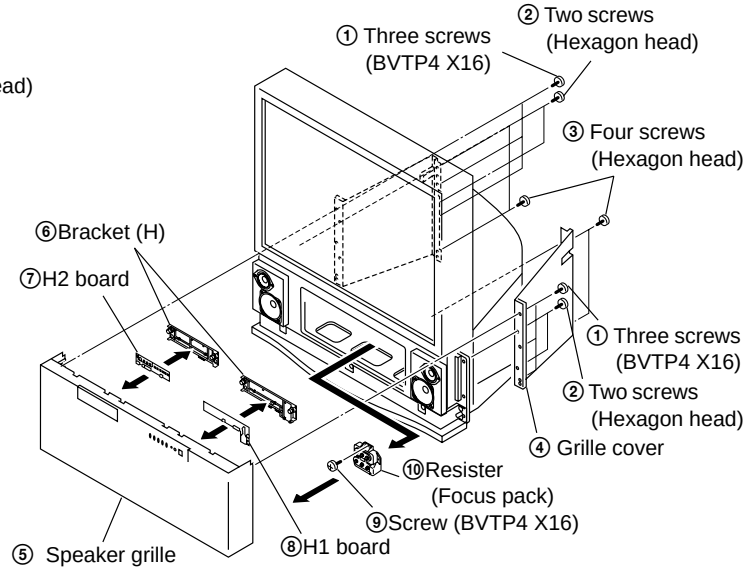


2-4. H1, H2 BOARDS AND RESISTOR (FOCUS PACK) REMOVAL

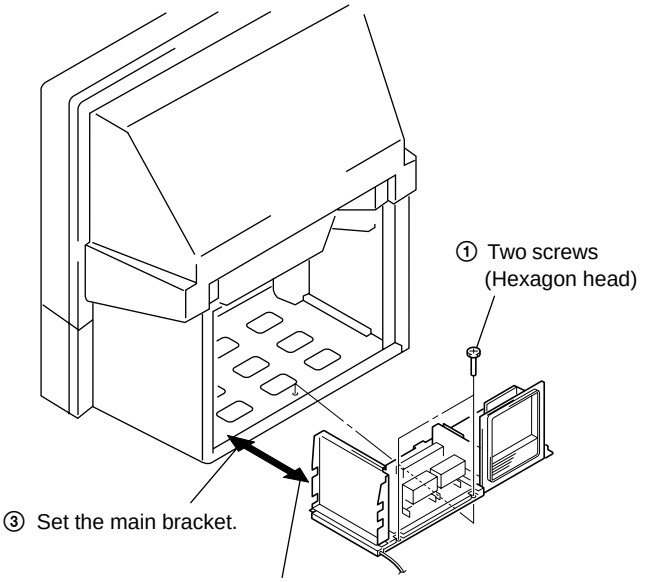
(1) KP-ER43



(2) KP-ER53

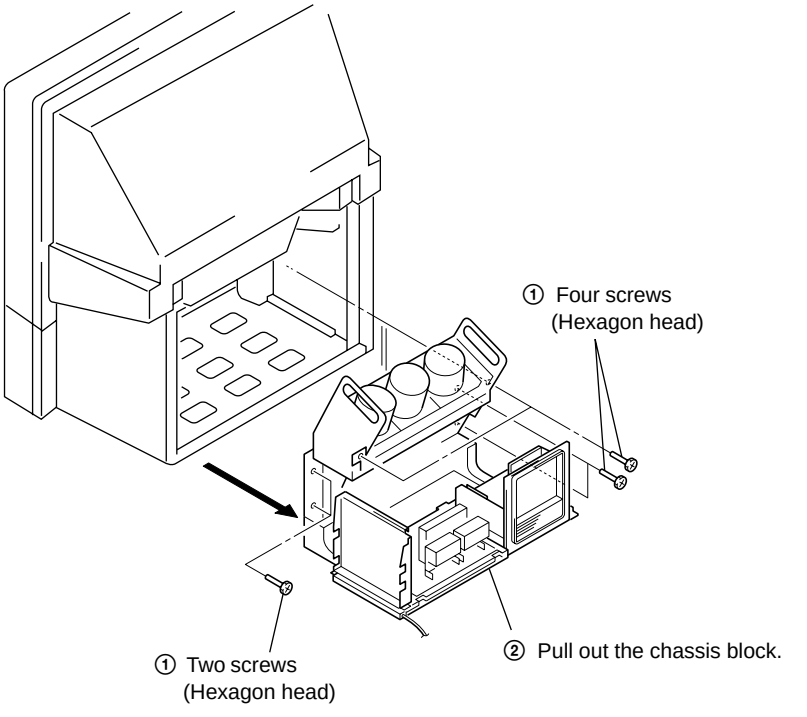


2-5. MAIN BRACKET REMOVAL



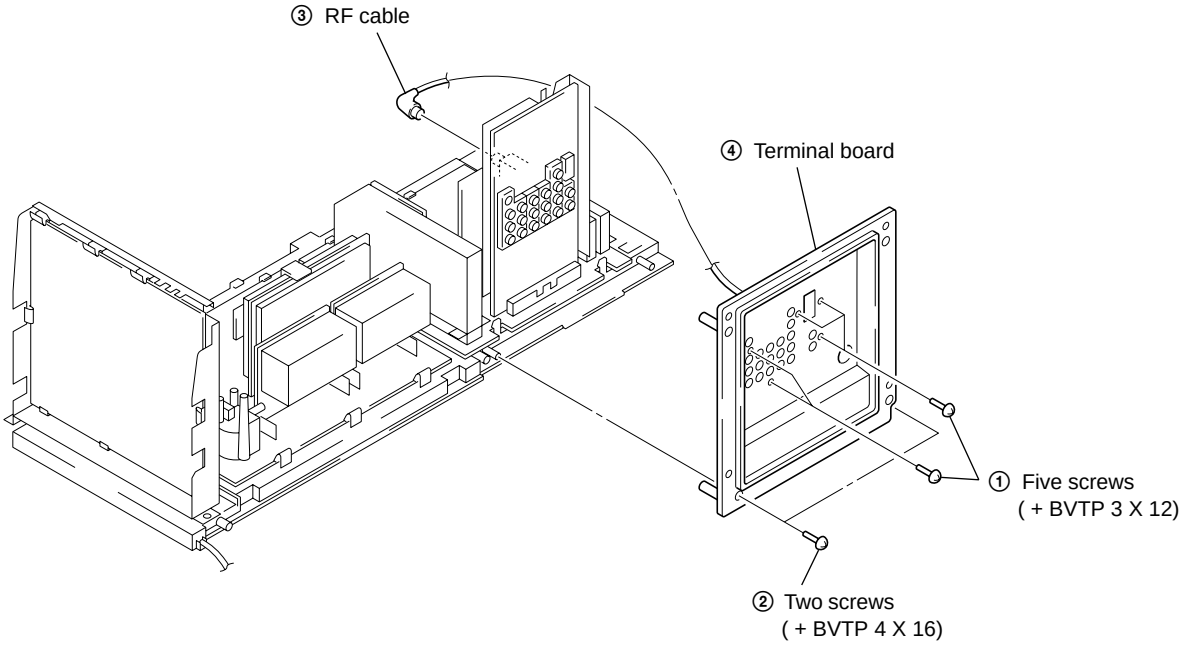
※ Pay particular attention to the wires of each printed circuit boards when puling out the main bracket.

2-6. CHASSIS BLOCK REMOVAL

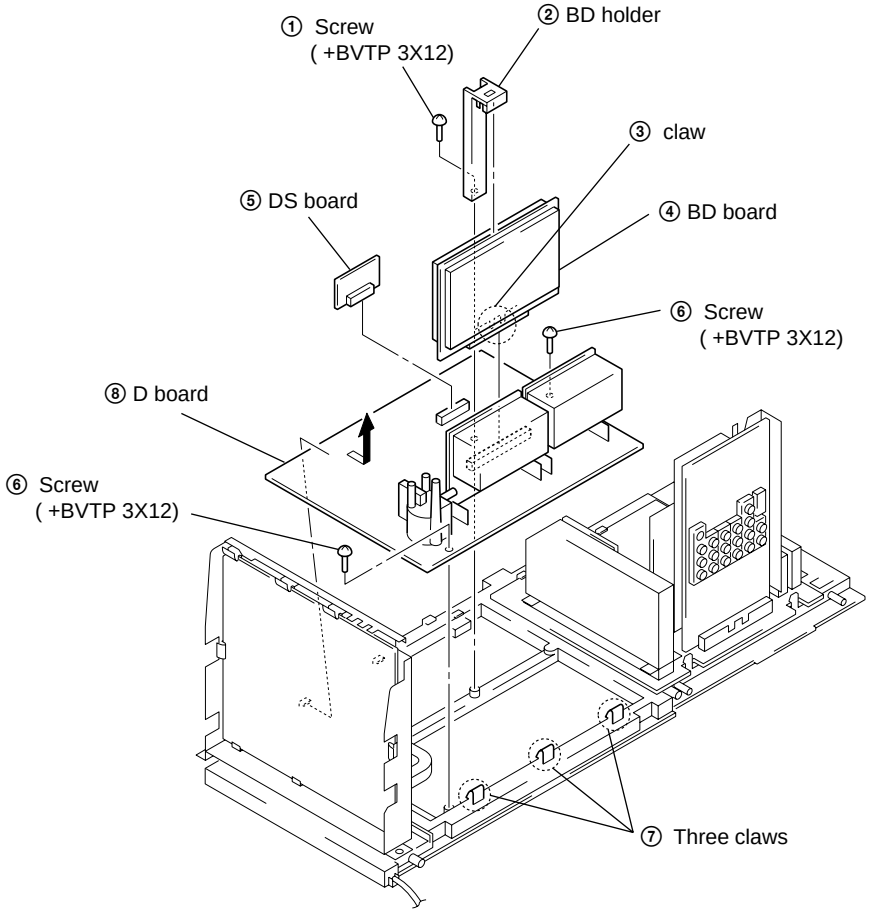


※ Pull out the chassis block by gripping the handles as shown in the diagram.
At this time, pay particular attention to the components removed in (1).

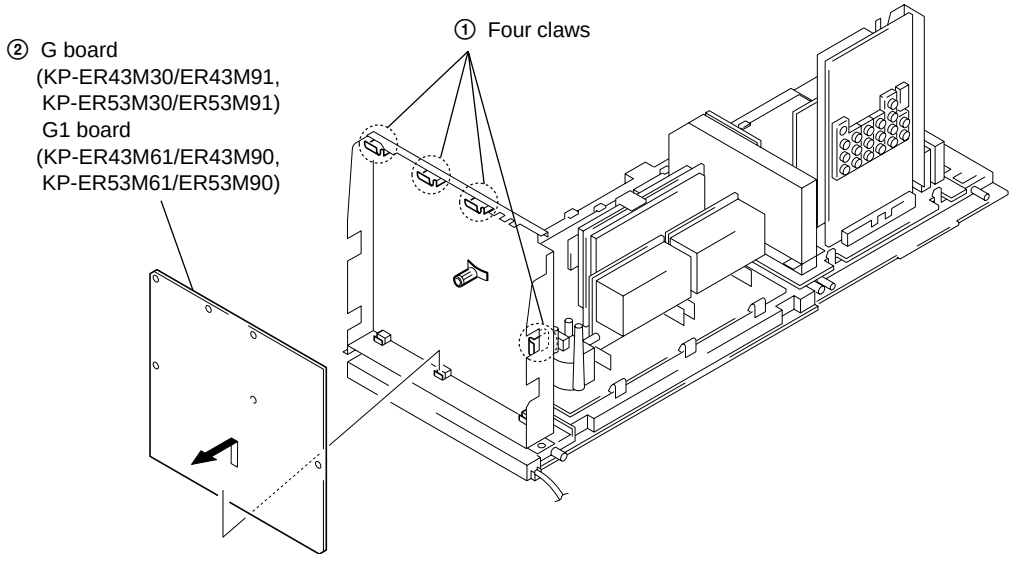
2-7. TERMINAL BOARD REMOVAL



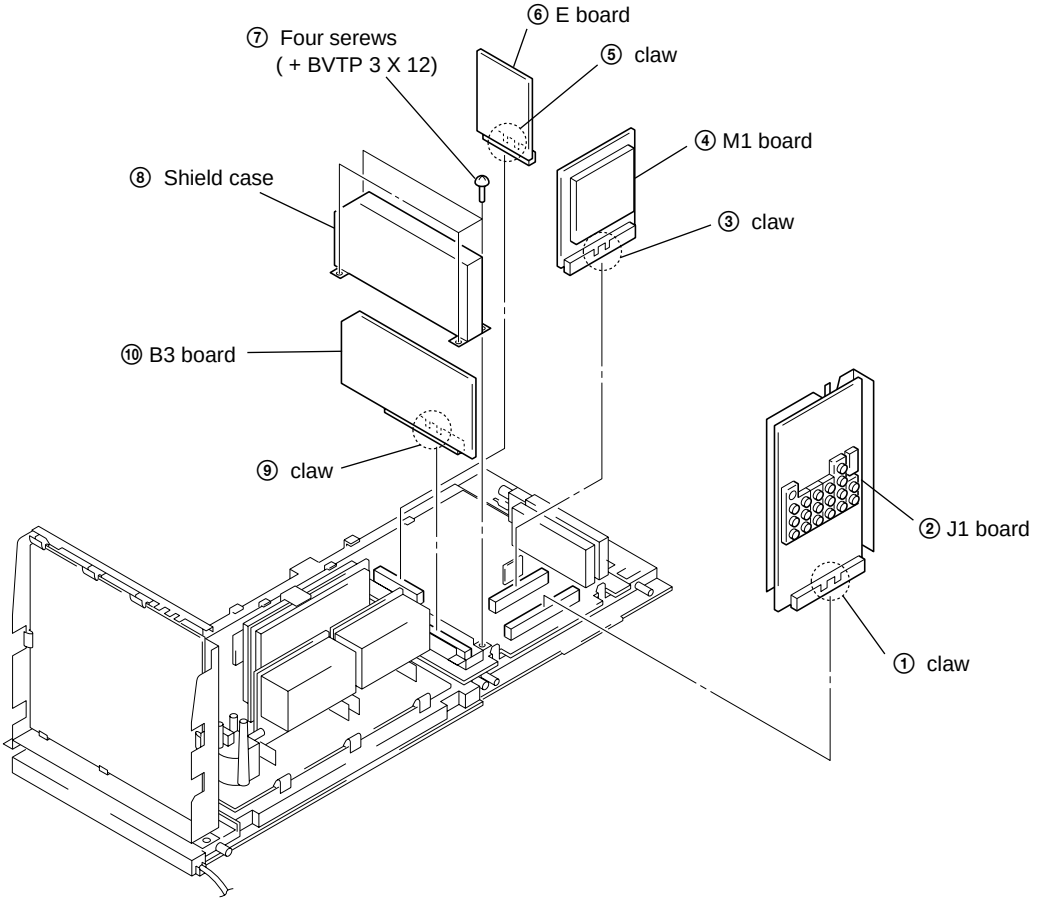
2-8. BD, DS AND D BOARDS REMOVAL



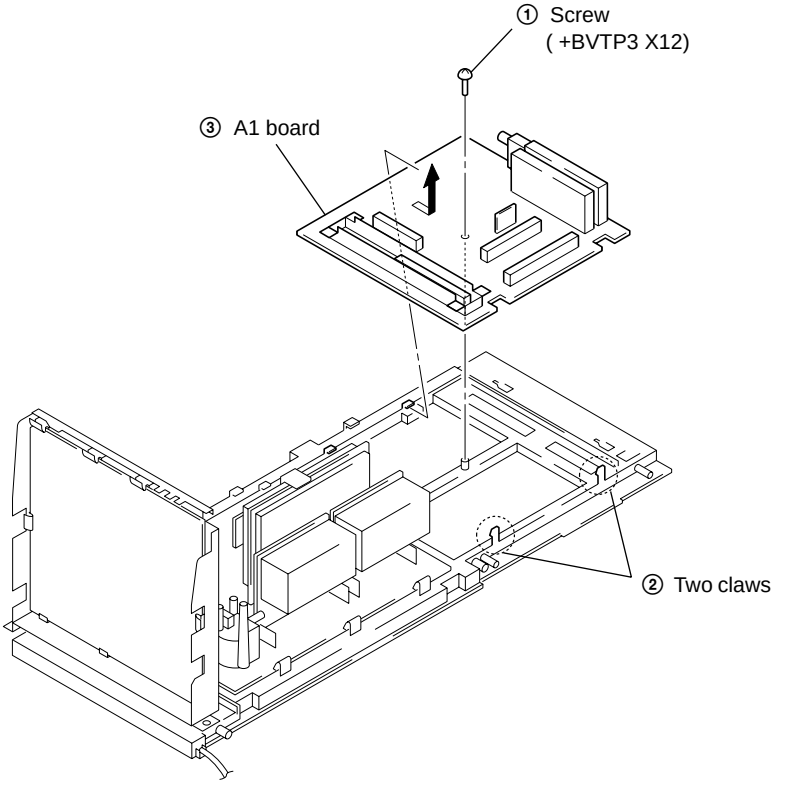
2-9. G AND G1 BOARD REMOVAL



2-10. J1, B3, E AND M1 BOARDS REMOVAL

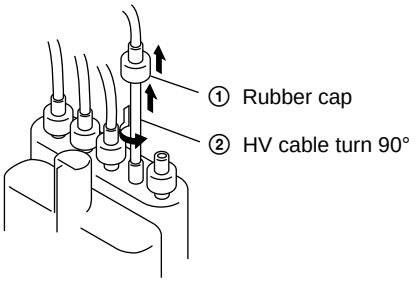


2-11. A1 BOARD REMOVAL

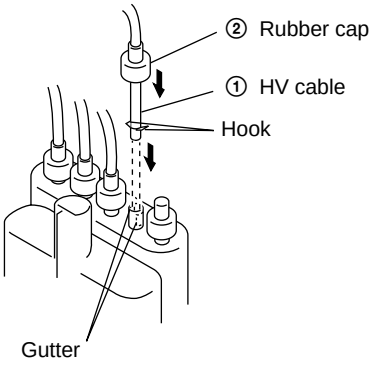


2-12. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

(1) Remover

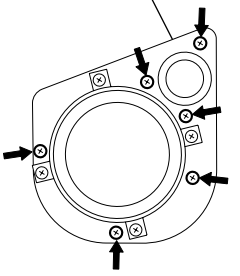


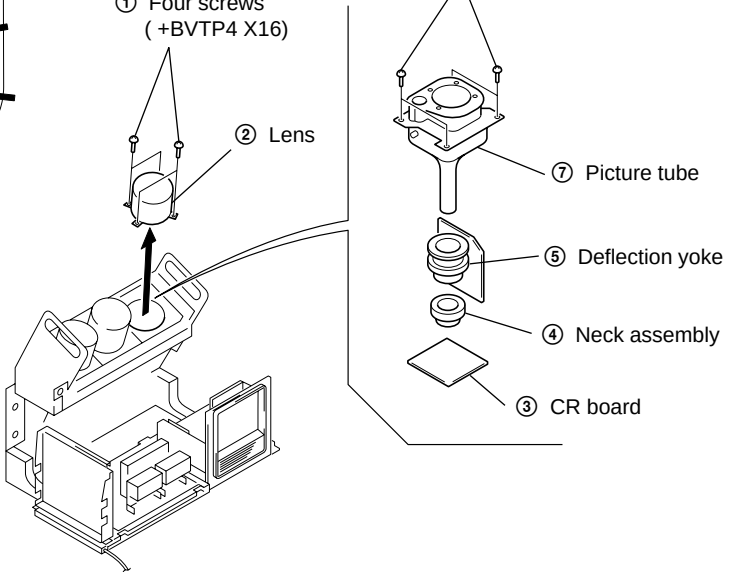
(2) Installation



2-13. MECHASEAL

Removing the arrow-marked screw is strictly inhibited.
If removed, it may cause liquid spill.





SECTION 3
SET-UP ADJUSTMENTS

3-1. SCREEN VOLTAGE ADJUSTMENT (ROUGH ALIGNMENT)

1. Receive the Monoscope signal.
2. Set 50% BRIGHTNESS and minimum PICTURE.
3. Turn the red VR on the focus pack all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.
4. Next gradually turn it to the left to the position where the retrace line disappears.

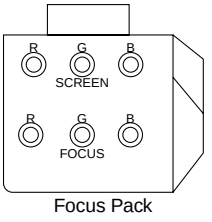


Fig. 3-1

3-2. SCREEN (G2) ADJUSTMENT

1. Turn on the power of the set.
2. Select VIDEO1 mode without signals.
3. Supply DC 175 ±0.5 V from external power supply to TP7103 (KR), TP7203 (KG) or TP7303 (KB) of CR board, CG board and CB board.
3. Adjust red, green and blue screen voltage to until retrace line disappears with screen VR on the focus pack.

3-3. FOCUS ROUGH ADJUSTMENT

1. Loose the lens screw.
2. Set in the service mode. (Refer to SECTION 5.)
3. Place the caps on the red and blue lens so that only the green color is shown.
4. Press "①" or "④" button on the commander and select "PJE", press "⑥" three times on the Commander to display the test signal (crosshatch) on the screen.

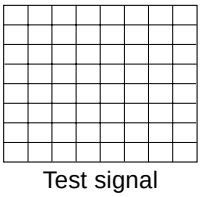


Fig. 3-2

5. Rotate the green lens and align to obtain the best lens focus at the center area.
6. Rotate the green focus VR on the focus pack and align to obtain the best electrical focus in the top right corner.
7. Perform the same alignment for red and blue lenses and electric focus.
8. Fix lens screw.

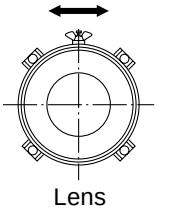


Fig. 3-3

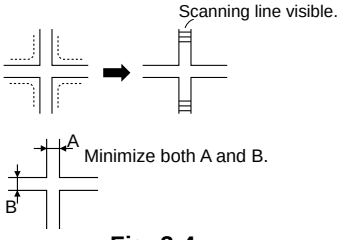
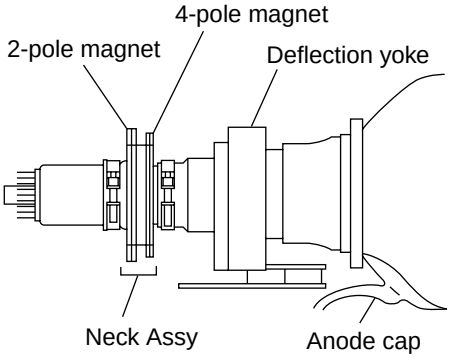


Fig. 3-4

3-4. DEFLECTION YOKE TILT ADJUSTMENT

1. Receive the Monoscope signal.
2. Place the caps on the red and blue lens so that only the green color.
3. Loosen the deflection yoke setscrew and align the tilt of the Deflection yoke so that the bars at the center of the monoscope pattern are horizontal.
4. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.
5. The tilt of the deflection yoke for red and blue is aligned the same as was done for green.



Make sure deflection yoke is touching CRT closely.

Fig. 3-5

3-5. 2-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Turn the green focus VR on the focus pack to the right and set to over focus to enlarge the spot.
4. Now align the 2-Pole Magnet so that the enlarged spot is in the center of the just focus spot.
   (center of the dot doesn't move)
5. Align the green focus VR and set for just (precise) focus.
6. Perform the same alignment for red and blue.

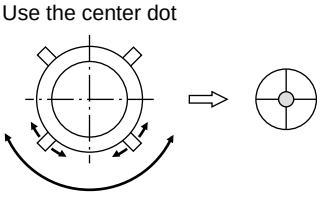


Fig. 3-6

3-6. 4-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Turn the green focus VR on the focus pack to the left and set to under focus to enlarge the spot.
4. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle.
5. Perform the same alignment for red and blue.

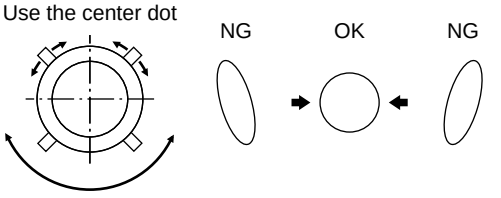


Fig. 3-7

3-7. GREEN, RED AND BLUE FOCUS ADJUSTMENT

3-7-1. Green, Red and Blue Lens Focus Adjustment

1. Receive the Monoscope signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Rotate the green lens and adjust to obtain the best lens focus at the center area.
4. Fix lens screw.
5. Repeat above process for red and blue.

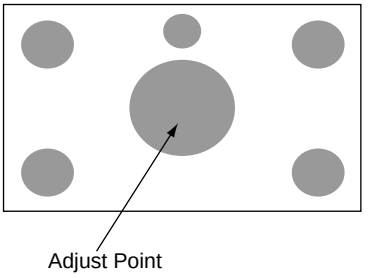


Fig. 3-8

3-7-2. Green, Red and Blue Electrical Focus Adjustment

1. Receive the Monoscope signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Rotate the green focus VR on the focus pack and adjust to obtain the best electrical focus in the adjust point.
4. Repeat above process for red and blue.
5. Repeat adjustment items 3-3. FOCUS ROUGH ADJUSTMENT, 3-5. 2-POLE MAGNET ADJUSTMENT, 3-6. 4-POLE MAGNET ADJUSTMENT and 3-7. GREEN, RED AND BLUE FOCUS ADJUSTMENT, and adjust to obtain the best focus.

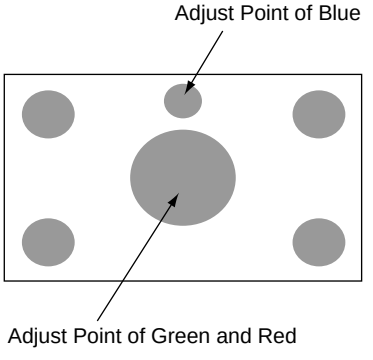


Fig. 3-9

SECTION 4
SAFETY RELATED ADJUSTMENT

When replacing the following components marked with ◪ on the schematic diagram, always check hold-down voltage and if necessary re-adjust.

Part Replaced (⋈)
R9901

Part Replaced (◪)	
D Board	C5117, C5123, C5127, C5143, D5115, D5204, Q5104, R5136, R5138, R5140, R9901, T5102, T5104, T5103 (FBT)
G Board	C6024, C6032, D6020

4-1. HV HOLD-DOWN ADJUSTMENT

1. Connect HV static voltmeter to HV Block.
2. Mount a resistor (R9901 : 43 k , 1/4 W, METAL FILM) at CN5003.
3. Remove CN5002 and connect External Power Supply to CN5002 ① pin (+135 V) and ② pin (GND).
4. Turn on the set.

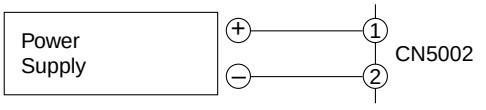


Fig. 4-1

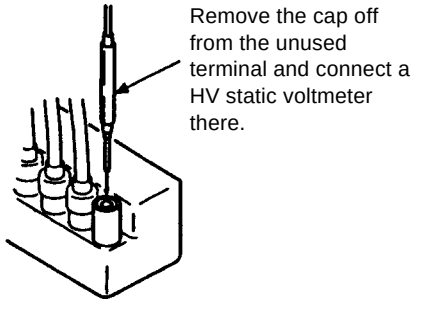


Fig. 4-2

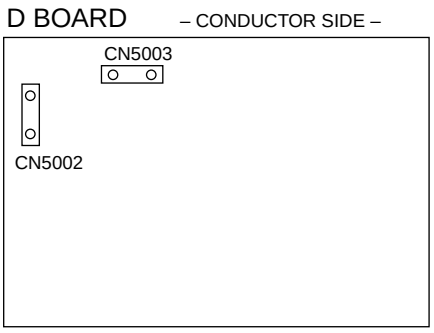


Fig. 4-3

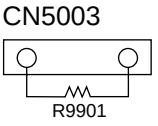


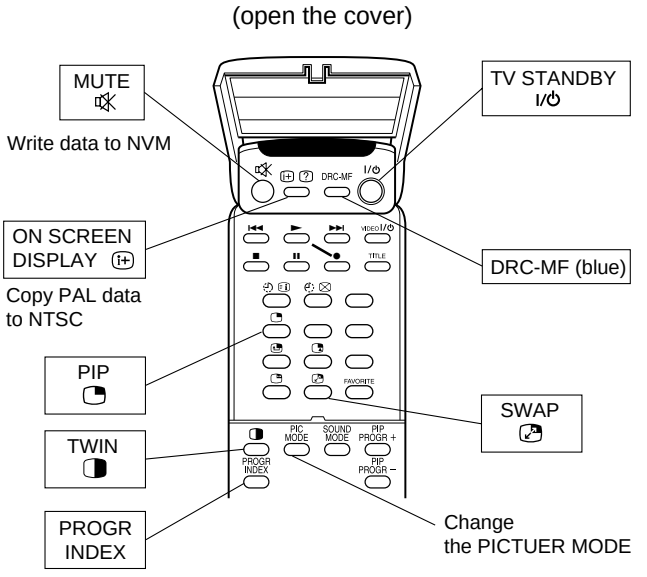
Fig. 4-4

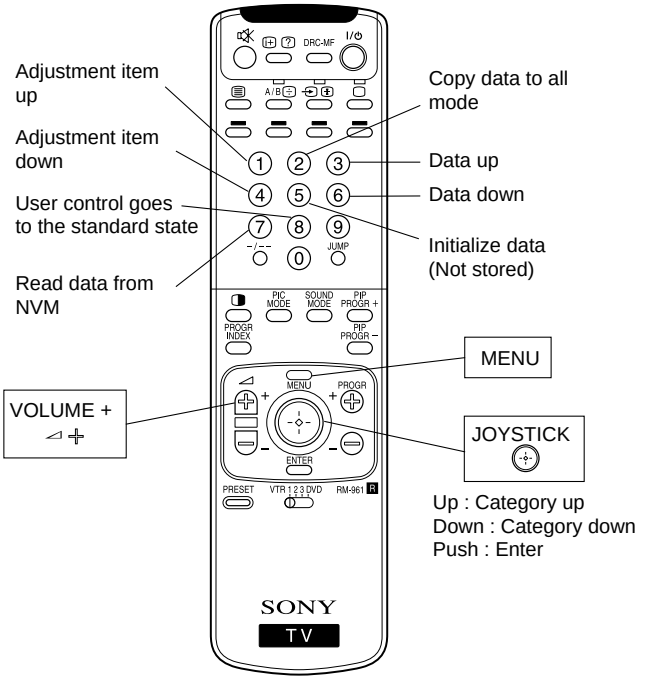
5. Receive the Dot signal and set PICTURE/BRIGHTNESS to minimum.
6. Slowly up the supply voltage from 0 V to 135 V until hold-down circuit works (picture disappear).
7. Read the HV static voltmeter of peak HV voltage.
   Spec : 33.7 ~ 35.3 kV
8. If Hold-down voltage is less than 33.7 kV then replace R9901 of 43 k with that of 39 k , and check if the voltage is within the spec.
9. If hold-down voltage is over than 35.3 kV then replace R9901 of 43 k with that of 47 k , and check if the voltage is within the spec.

SECTION 5
ELECTRICAL ADJUSTMENTS

5-1. ADJUSTMENTS WITH COMMANDER

Service adjustment to this model can performed with the supplied remote commander RM-961





RM-961

5-1-1. How to Select Each Mode

The adjustment requires the following modes:

	50 Hz (PAL)	60 Hz (NTSC)	WIDE 60 Hz (NTSC)
DRC1250	○	○	○
DRC100	○	○	×
PIP	○	○	○
TWIN	○	○	×
INDEX	○	○	×

1. Selection of Mode Between 50 Hz and 60 Hz

50 Hz : Enter the PAL signal.
60 Hz : Enter the NTSC signal.
WIDE 60 Hz : Enter the NTSC signal with video input

2. Selection of DRC Mode

1) Press “DRC-MF (blue)” button on the commander, repeatedly until displays the mode that you want to select on the screen.

Note : The DRC-MF mode is not selectable when using the “PROGRAM INDEX” or “FAVORITE CH” feature, or when the “GAME MODE”, “PIP”, or “TWIN” mode is turned “ON”.

3. Selection of WIDE mode

The WIDE mode is selected only when the DRC1250 of NTSC signal with video input mode is active.

1) Enter the NTSC signal with video input.
2) Press “DRC-MF (blue)” button on the commander to select “DRC1250”.
3) Press “MENU” button on the commander and move “⊙” up or down to enter the “FEATURE” ➧ “WIDE MODE”.
4) Move “⊙” up or down to select “ON” or “OFF”, and push “⊙ (ENTER)” button.
5) Press “MENU” button to return to normal screen.

4. Selection of PIP mode

1) Open the remote control cover, press “◔ (PIP)” button on the commander.
2) Press “◔ (PIP)” button again to return to normal screen.

5. Selection of TWIN mode

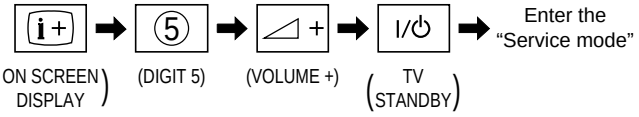
1) Press “◑ (TWIN)” button on the commander.
2) Press “◑ (TWIN)” button again to return to normal screen.

6. Selection of INDEX mode

1) Press “PROGR INDEX” button on the commander.
2) Press “PROGR INDEX” button again to return to normal screen.

5-1-2. How to Enter Service Mode

1. Turn on the main power switch to place this set in standby mode. (LED will light in red.)
2. Press the buttons on the commander as follows, and enter service mode.

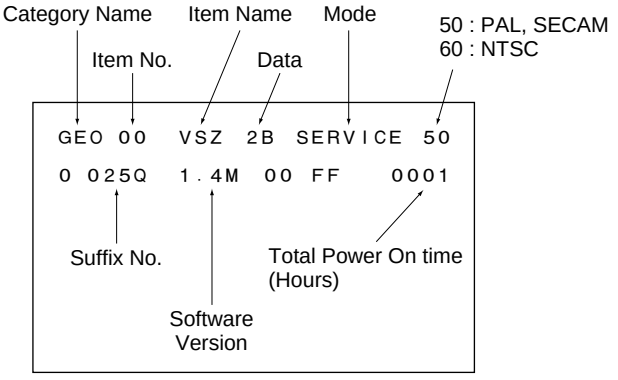


5-1-3. Method of Cancellation from Service Mode

1. Set the standby mode (Press "I/⏻ (TV STANDBY)" button on the commander), then press "I/⏻ (TV STANDBY)" button again, hereupon it becomes TV mode.

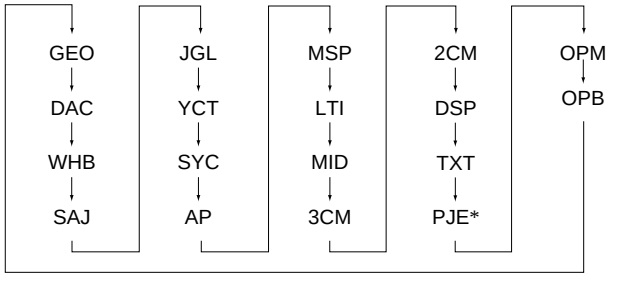
5-1-4. How to Adjustments

1. Set in the service mode, the following screen will appear.



2. Press "①" or "④" button on the commander to select the adjustment item.
3. Press "③" or "⑥" button on the commander to change the adjustment data.
4. Move "◎" up or down to select the adjustment category.

   When move "◎" up (category up), service mode changes in the order as shown below.



* : When it moves from PJE to other categrys, repeat ① or ④ button and press it.

5-1-5. How to Write the Data

1. Set in the service mode.
2. Press "①" or "④" button on the commander, select the adjustment item, and press "③" or "⑥" button to change the data.
3. Press "🔇 (MUTE)" button on the commander and it will indicate "WRITE" on the screen.
4. Press "⓪" button on the commander to write into memory. (The "WRITE" display will be changed to red color while executing, and back to "SERVICE".)

Commander Function (Except PJE mode)

Button	Mode	Description
🔇 + ⓪	WRITE	Writes data to NVM.
⑦ + ⓪	READ	Reads data from NVM.
⑧ + ⓪	NORMAL	All user control goes to the standard.
⑤ + ⓪	INITIAL	Service data initialization. Not stored. (Be sure not to use usually)
② + ⓪	COPY	Copies and writes data of DRC1250 (50Hz) mode to all other modes.
i+ + ⓪	WRT5060	Copies data of 50 Hz (PAL) mode to 60 Hz (NTSC) mode.

Note : Before changing to other modes, press "🔇 (MUTE)" + "⓪" buttons on the commander to write the data. (Omission of this operation causes the data to be returned to the data before adjustment.)

: Confirm the adjustment mode before writing data for data values because to vary in each adjustment mode.

: The adjustment item that there are no relations in the adjustment is not to change data values because all items are written in each adjustment mode.

5-1-6. Memory Write Confirmation Method

1. After adjustment, pull put the plug from AC outlet, and then plug into AC outlet again.
2. Turn the power switch ON and set in service mode.
3. Call the adjustment items again to confirm adjustments were made.

5-2. SERVICE LIST

Note

- Common : The data value of each mode commonness. Others are set up by each mode.
- ▓ : Shaded items are fixed data.
- □ : Though data value is indicated on the screen, it is not used.
- Standard data listed on the Adjustment Item Table are reference values, therefore it may be different for each model and for each mode.
- Note for Different Data :
  Those are the standard data values written on the microprocessor. Therefore, the data values of the modes and stored respectively in the memory.
  In case of a device replacement, adjustment by rewriting the data value is necessary for some items.

OPTION NOTE

Category : **OPM**

Item : **COM** Comb Operation Selection
00 = automatic operation (depends on color system status)
01 = no comb operation
02 = forced 2D-comb operation
03 = forced 3D-comb operation

Item : **TSY** TV System Selection for Auto TV System 00 = B/G, 01 = I, 10 = D/K, 11 = M

Item : **SSO** Speed CH Search Selection 00 = normal, 01 = 4 times, 10 = 6 times, 11 = 8 times

Item : **TRP** MPEG/JPEG Noise Reduction

Bit	bit7	bit6	bit5	bit4	bit3	bit2	bit1	bit0
Input	–	–	TV	Video 1	Video 2	Video 3	Video 4	DVD

Category : **OPB**

OP1	bit7	bit6	bit5	bit4	bit3	bit2	bit1	bit0
Item	TOP	NICAM	HDEV	(reserved)	–	DVD Input	AV Input	
Data	1	1	1	0	0	1	1	1

AV Input 00 = no AV Input 01 = 1 AV Input
10 = 3 AV Input 11 = 4 AV Input

OP2	bit7	bit6	bit5	bit4	bit3	bit2	bit1	bit0
Item	C-Text	Korean Stereo	Korean Mode	A-TVsys	US ST	SSV Mode	OSD Language	
Data	0	0	0	1	0	0	1	1

C-Text	Text Decoder Selection	0 = original,	1 = chinese
Korean Stereo*	Korean Stereo	0 = disabled,	1 = enabled
Video NTSC 3.58*	Video Color System	0 = Multi System,	1 = Single System
A-TVsys	Auto TV System in Auto Program	0 = disabled,	1 = enabled
US ST*	USA Stereo	0 = disabled,	1 = enabled
SSV Model	SSV-production Model	0 = original,	1 = disable PIP/TWIN/Digital
OSD Language	00 = English only,	01 = English & Chinese,	
	10 = English & Arabic/Korean*	11 = English, Chinese & Arabic/Korean*	

* : APPLICABLE FOR NTSC MODELS ONLY

V : WIDE (V-Compressed) mode

Category	Item		Function	Data Range	Standerd Data												ECO Mode				Device Name
					50Hz (PAL)					60Hz (NTSC)											
	No.	Name			DRC 1250	PIP	INDEX	TWIN	DRC 100	DRC 1250	DRC 1250 V	PIP	PIP V	INDEX	TWIN	DRC 100	ECO ON	ECO OFF	ECO ON V	ECO OFF V	
GEO	00	VSZ	V SIZE	00 ~ 3F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F					CXA2100AQ
	01	VPS	V POSITION	00 ~ 3F	23	23	1F	1F	23	1F	1F	1F	1F	1F	1F	1F					
	02	VLN	V LINEARITY	00 ~ 0F	07	07			07	07	07	07	07			07					
	03	SCO	S CORRECTION	00 ~ 0F	07	07			07	07	07	07	07			07					
	04	HSZ	H SIZE	00 ~ 3F	33	33	33	33	33	33	33	33	33	33	33	33					
	05	HPS	H POSITION	00 ~ 3F	37	37	37	37	37	37	37	37	37	37	37	37					
	06	DVH	H POSITION OFFSET FOR DVD	00 ~ 0F	09					07											
	07	PAP	PIN AMP	00 ~ 3F	22	22			22	22	22	22	22			22					
	08	UPN	UPPER CORNER PIN	00 ~ 3F	22	22	22	22	22	22	22	22	22	22	22	22					
	09	LPN	LOWER CORNER PIN	00 ~ 3F	22	22	22	22	22	22	22	22	22	22	22	22					
	0A	TRZ	TRAPEZIUM	00 ~ 0F	06	06	06	06	06	06	06	06	06	06	06	06					
	0B	AGL	AFC ANGLE	00 ~ 0F	07	07			07	07	07	07	07			07					
	0C	BOW	AFC BOW	00 ~ 0F	07	07			07	07	07	07	07			07					
	0D	LBL	LEFT H BLANKING	00 ~ 3F	34	34	34	34	34	34	34	34	34	34	34	34					
	0E	RBL	RIGHT H BLANKING	00 ~ 3F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F					
	0F	MPN	MIDDLE PIN DISTORTION COMPENSATION	00 ~ 03	00					00	00										
	10	UVL	UPPER V LINEARITY	00 ~ 0F	00					00											
	11	LVL	LOWER V LINEARITY	00 ~ 0F	00					00											
	12	HCP	HORIZONTAL HIGH VOLTAGE COMPENSATION	00 ~ 03	01					01	01										
	13	VCP	VERTICAL HIGH VOLTAGE COMPENSATION	00 ~ 03	00					00	00										
	14	VAS	V ASPECT	00 ~ 3F	2F	2F	2F	2F	2F	2F	2C	2F	2C	2F	2F	2F					
	15	VSC	V SCROLL	00 ~ 3F	1F	1F	1F	1F	1F	22	22	22	22	22	22	22					
	16	USC	UNDER-SCAN MODE ON/OFF	00, 01	00					00	01										
	17	VBW	V BLANKING WIDTH CONTROL	00 ~ 03	00	00			00	00	03	00	03			00					
	18	AT1	AKB REFERENCE TIMING	00 ~ 03	00	00			00	00	00	00	00			00					
	19	CPY	COPY THE GEO DATA TO ALL 50/60Hz NVM AREA	00, 01																	
DAC	00	HCT	H CENTER	00 ~ FF																	MB88141
	01	HLN	H LINEARITY	00 ~ 3F																	
	02	MDP	MIDDLE PIN	00 ~ 3F																	
	03	CCP	LOWER CORNER PIN	00 ~ 3F																	
	04	HTR	HORIZONTAL TRAPEZIUM	00 ~ 3F																	
	05	DF	DF ON/OFF SWITCH	00, 01																	
	06	DPH	DF PHASE	00 ~ 3F																	
	07	QPH	QP PHASE	00 ~ 3F																	
	08	QAC	QP AMPLITUDE	00 ~ 3F																	
	09	QDC	QP DC LEVEL	00 ~ 3F																	
	0A	QDV	QP V MODULATION	00 ~ 3F																	
	0B	QAV	QP AMPLITUDE MODULATION	00 ~ 3F																	
	0C	ABC	ABL D/A CONTROL	00 ~ FF													00	00	7E	7E	
	0D	CPY	COPY THE DAC DATA TO ALL 50/60Hz NVM AREA	00, 01	00																

Category	Item		Function	Data Range	Standerd Data	Device Name
	No.	Name			Common	
WHB	00	CBO	DC OFFSET CANCELLER FOR CB1	00 ~ 0F	0A	CXA2100AQ
	01	CRO	DC OFFSET CANCELLER FOR CR1	00 ~ 0F	0A	
	02	SBR	SUB BRIGHTNESS CONTROL	00 ~ 3F	25	
	03	RDR	R DRIVE	00 ~ 3F	29	
	04	GDR	G DRIVE	00 ~ 3F	29	
	05	BDR	B DRIVE	00 ~ 3F	29	
	06	RCT	R CUTOFF	00 ~ 3F	29	
	07	GCT	G CUTOFF	00 ~ 3F	1A	
	08	BCT	B CUTOFF	00 ~ 3F	29	
	09	SBO	SUB BRIGHTNESS OFFSET	00 ~ 3F	1F	
	0A	RDO	R DRIVE OFFSET	00 ~ 3F	1F	
	0B	GDO	G DRIVE OFFSET	00 ~ 3F	1F	
	0C	BDO	B DRIVE OFFSET	00 ~ 3F	1F	
	0D	RCO	R CUTOFF OFFSET	00 ~ 3F	1F	
	0E	GCO	G CUTOFF OFFSET	00 ~ 3F	1F	
	0F	BCO	B CUTOFF OFFSET	00 ~ 3F	1F	

V : WIDE (V-Compressed) mode

Category	Item		Function	Data Range	Standerd Data																	Device Name
					Common	50Hz (PAL)			60Hz (NTSC)			Twin	Index	Picture Mode				ECO Mode				
	No.	Name				TV	Video	DVD	TV	Video	DVD			Dynamic	Standard	Hi-Fine	Personal	ECO ON	ECO OFF	ECO ON V	ECO OFF V	
SAJ	00	PIC	PICTURE CONTROL	00 ~ 3F										3F	2C	1C						CXA2100AQ
	01	BRT	BRIGHTNESS CONTROL	00 ~ 3F										21	1F	1B						
	02	COL	COLOR CONTROL	00 ~ 3F										27	23	1F						
	03	HUE	HUE CONTROL	00 ~ 3F										1F	1F	1F						
	04	SHP	SHARPNESS CONTROL	00 ~ 3F										22	1F	1D						
	05	VML	VM LEVEL	00 ~ 03										03	03	02	03					
	06	DYC	DYNAMIC COLOR ON/OFF	00, 01										01	01	00	01					
	07	CTM	COLOR TEMPERATURE FOR DYNAMIC COLOR	00, 01										00	00	00	00					
	08	CAX	COLOR MATRIX SPECIFICATION	00 ~ 03		02			00													
	09	GMA	GAMMA CORRECTION	00 ~ 03										03	03	03	03					
	0A	DCT	DC TRANSMISSION CONTROL	00 ~ 03										01	00	00	00					
	0B	DPL	AUTO PEDESTAL LEVEL CONTROL	00 ~ 03										02	01	00	01					
	0C	ABM	ABL MODE CONTROL	00 ~ 03										01	00	00	00					
	0D	ABT	ABL CURRENT DETECTION Vth CONTROL	00 ~ 03														02	00	02	00	
	0E	CLO	COLOR OFFSET	00 ~ 0F		07	07		0C	0C												
	0F	CLW	COLOR STEP WIDTH TO THE CHANGE OF S/N	00 ~ 07	01																	
	10	HUO	HUE OFFSET	00 ~ 0F		08	08		09	09												
	11	SHO	SHARPNESS OFFSET	00 ~ 1F		0F	0F	0F	0C	0F	0F											
	12	SHW	SHARPNESS STEP WIDTH TO THE CHANGE OF S/N	00 ~ 07	01																	
	13	PIO	PICTURE OFFSET FOR TWIN/INDEX	00 ~ 07								07	07									
	14	BRO	BRIGHTNESS OFFSET	00 ~ 0F														07	07	07	07	
JGL	00	PON	RGB AND AKB REFERENCE PULSE OUTPUT ON/OFF	00, 01	01																	CXA2100AQ
	01	RGB	RGB OUTPUT SELECTION	00 ~ 07	07																	
	02	AGG	AGING MODE SELECTION	00 ~ 03	00																	
	03	DPS	Y/C DELAY LINE PASS MODE SWITCH	00, 01	00																	
	04	BBT	RGB BOTTOM LIMITTER CONTROL	00 ~ 03	03																	
	05	LML	RGB AMPLITUDE LIMITTER CONTROL	00 ~ 03	00																	
	06	PAB	DC LEVEL FOR PEAK ABL	00 ~ 0F	0F																	
	07	SCO	SUB PICTURE CONTROL	00 ~ 0F	07																	
	08	LV2	RGB LEVEL FOR RGB2	00 ~ 0F	06																	
	09	SF0	SHARPNESS CIRCUIT F0	00, 01		01	01	01	01	01	01											
	0A	PRO	PRE/OVER-SHOOT RATIO CONTROL	00 ~ 03		00	03	03	03	03	03											
	0B	LTI	LUMINANCE TRANSIENT IMPROVEMENT	00 ~ 03										02	02	00	02					
	0C	CTI	CHROMINANCE TRANSIENT IMPROVEMENT	00 ~ 03										01	01	00	01					

Category	Item		Function	Data Range	Standerd Data												Device Name
					Common	2D Comb	3D Comb	S-Input	others	TV		Video		DVD			
	No.	Name								50Hz (PAL)	60Hz (NTSC)	50Hz (PAL)	60Hz (NTSC)	50Hz (PAL)	60Hz (NTSC)		
YCT	00	TNT	TINT ADJUSTMENT FOR NTSC	00 ~ 3F						24		1F					CXA2123Q
	01	PNG	PAL/NTSC GATE WIDTH	00, 01	01												
	02	PNI	PAL/NTSC SENSITIVITY SW	00, 01	00												
	03	SCL	SUB COLOR CONTROL	00 ~ 0F						07	07	07	07				
	04	SCT	SUB CONTRAST CONTROL	00 ~ 0F						08	07	08	07				
	05	SF0	SHARPNESS CENTER FREQUENCY CHANGING	00 ~ 03	02												
	06	SEQ	SHARPNESS EQUALIZER CHARACTERISTIC	00 ~ 03	03												
	07	SHG	SHARPNESS GAIN CONTROL	00 ~ 0F						05	06	05	06	05	05		
	08	YOL	Y-OUTPUT LEVEL CONTROL	00 ~ 3F	1F												
	09	BSP	BLACK STRETCH START POINT CHANGING	00 ~ 03	00												
	0A	COL	CB/CR OUTPUT LEVEL CONTROL	00 ~ 3F	1A												
	0B	DCR	DC RESTORATION RATIO ADJUSTMENT	00 ~ 03	00												
	0C	BF0	BPF/TQF F0 ADJUSTMENT	00 ~ 03	01												
	0D	BFQ	BPF/TQF Q ADJUSTMENT	00 ~ 03	02												
	0E	FSW	BPF/TQF SWITCH	00, 01	01												
	0F	SDT	SECAM DOUBLE TRAP SWITCH	00, 01	01												
	10	LPF	Y/CB/CR LPF SWITCH	00, 01	01												
	11	YDL	Y-DL TIME ADJUSTMENT	00 ~ 0F		06	05	05	03								
	12	CMT	CB/CR OUTPUT MUTE SWITCH	00, 01	00												
	13	BO1	CB OFFSET ADJUSTMENT (MAIN ROUTE)	00 ~ 0F	07												
	14	RO1	CR OFFSET ADJUSTMENT	00 ~ 0F	07												
	15	CDF	V COUNT DOWN FREQUENCY SWITCH	00 ~ 07	00												
	16	CDM	V COUNT DOWN JUDGE SWITCH	00 ~ 03	00												
	17	AFC	AFC SENSITIVITY SWITCH	00 ~ 03								00		00			
	18	MVM	MACROVISION MASK + AFC MASK	00, 01	00												
	19	SRY	SECAM R-Y BLACK ADJUSTMENT	00 ~ 0F	07												
	1A	SBY	SECAM B-Y BLACK ADJUSTMENT	00 ~ 0F	01												
	1B	BEL	SECAM BELL/HPF SWITCHING	00 ~ 03	02												
	1C	BLF	BELL F0 ADJUSTMENT	00, 01	00												
	1D	SVI	SECAM V-ID SWITCH	00, 01	00												
	1E	SGP	SECAM GATE POSITION ADJUSTMENT	00 ~ 03	00												
	1F	SID	SECAM SENSITIVITY SWITCH	00, 01	01												
	20	SIH	SECAM INHIBITION SWITCH	00, 01	00												
	21	STP	Y BLACK LEVEL SETUP FOR PAL PLUS	00, 01	00												
	22	HVC	H-VCO TEMPERATURE CHARACTER CANCELLING	00 ~ 03	02												
	23	3NR	3D NR OPERATION ON/OFF	00, 01	01												
	24	BW6	3D NR FOR 60Hz NON-BURST SIGNAL ON/OFF	00, 01	01												
	25	WSH	SHARPNESS GAIN STEP FOR NOISE REDUCTION	00 ~ 03	00												
	26	WCO	CB/CR OUTPUT LEVEL STEP FOR NOISE REDUCTION	00 ~ 03	00												

Category	Item		Function	Data Range	Standerd Data										Device Name
					Common	S-Input	Col Mode			TV		Video		DVD	
	No.	Name					SECAM	NTSC	PAL	50Hz (PAL)	60Hz (NTSC)	50Hz (PAL)	60Hz (NTSC)		
SYC	00	TNT	TINT ADJUSTMENT FOR NTSC	00 ~ 3F						21		20			CXA2123Q
	01	PNG	PAL/NTSC GATE WIDTH	00, 01	01										
	02	PNI	PAL/NTSC SENSITIVITY SW	00, 01	00										
	03	SCL	SUB COLOR CONTROL	00 ~ 0F						06	06	07	07		
	04	SCT	SUB CONTRAST CONTROL	00 ~ 0F						08	07	08	07		
	05	SF0	SHARPNESS CENTER FREQUENCY CHANGING	00 ~ 03	02										
	06	SEQ	SHARPNESS EQUALIZER CHARACTERISTIC	00 ~ 03	03										
	07	SHG	SHARPNESS GAIN CONTROL	00 ~ 0F	07										
	08	YOL	Y-OUTPUT LEVEL CONTROL	00 ~ 3F	1F										
	09	BSP	BLACK STRETCH START POINT CHANGING	00 ~ 03	00										
	0A	COL	CB/CR OUTPUT LEVEL CONTROL	00 ~ 3F	1A										
	0B	DCR	DC RESTORATION RATIO ADJUSTMENT	00 ~ 03	00										
	0C	BF0	BPF/TQF F0 ADJUSTMENT	00 ~ 03	01										
	0D	BFQ	BPF/TQF Q ADJUSTMENT	00 ~ 03	02										
	0E	FSW	BPF/TQF SWITCH	00, 01	01										
	0F	SDT	SECAM DOUBLE TRAP SWITCH	00, 01	01										
	10	LPF	Y/CB/CR LPF SWITCH	00, 01	01										
	11	YDL	Y-DL TIME ADJUSTMENT	00 ~ 0F		05	03	02	03						
	12	NCM	1-H ADDITION SWITCH	00, 01	01										
	13	CMT	CB/CR OUTPUT MUTE SWITCH	00, 01	00										
	14	BO1	CB OFFSET ADJUSTMENT (MAIN ROUTE)	00 ~ 0F	07										
	15	RO1	CR OFFSET ADJUSTMENT	00 ~ 0F	07										
	16	CDF	V COUNT DOWN FREQUENCY SWITCH	00 ~ 07	00										
	17	CDM	V COUNT DOWN JUDGE SWITCH	00 ~ 03	00							00		00	
	18	AFC	AFC SENSITIVITY SWITCH	00 ~ 03											
	19	MVM	MACROVISION MASK + AFC MASK	00, 01	00										
	1A	SRY	SECAM R-Y BLACK ADJUSTMENT	00 ~ 0F	07										
	1B	SBY	SECAM B-Y BLACK ADJUSTMENT	00 ~ 0F	01										
	1C	BEL	SECAM BELL/HPF SWITCHING	00 ~ 03	02										
	1D	BLF	BELL F0 ADJUSTMENT	00, 01	00										
	1E	SVI	SECAM V-ID SWITCH	00, 01	00										
	1F	SGP	SECAM GATE POSITION ADJUSTMENT	00 ~ 03	00										
	20	SID	SECAM SENSITIVITY SWITCH	00, 01	01										
	21	SIH	SECAM INHIBITION SWITCH	00, 01	00										
	22	STP	Y BLACK LEVEL SETUP FOR PAL PLUS	00, 01	00										
	23	HVC	H-VCO TEMPERATURE CHARACTER CANCELLING	00 ~ 03	02										

Category	Item		Function	Data Range	Standerd Data									Device Name
	No.	Name			Common	Sur VDD	Sur VDP	Sur TRS	Sur SIM	Sur OFF	Dynamic	Drama	Soft	
43"	00	BAS	BASS CONTROL	00 ~ 0F							0B	0A	07	TDA7315
	01	TRE	TREBLE CONTROL	00 ~ 0F							0A	09	07	
	02	LDN	LOUDNESS ON/OFF	00, 01	01									
53"	00	BAS	BASS CONTROL	00 ~ 0F							09	07	05	
	01	TRE	TREBLE CONTROL	00 ~ 0F							0B	09	06	
	02	LDN	LOUDNESS ON/OFF	00, 01	01									

Sur : Surround mode
VDD : Virtual Dolby Digital
VDP : Virtual Dolby Prologic
TRS : Tru Surround
SIM : Simulated

Category	Item		Function	Data Range	Standerd Data	Device Name
	No.	Name			Common	
MSP	00	WST	W/G STEREO THRESHOLD	00 ~ FF	15	MSP3415D
	01	WBT	W/G BILINGUAL THRESHOLD	00 ~ FF	EA	
	02	WLL	W/G MONAURAL THRESHOLD	00 ~ FF	05	
	03	WAC	W/G AGREEMENT COUNT	00 ~ 0F	01	
	04	WDL	W/G SEARCH DELAY	00 ~ FF	30	
	05	NDL	NICAM SEARCH DELAY	00 ~ FF	20	
	06	SDL	STEREO STATUS READ DELAY	00 ~ FF	10	
	07	AGC	AGC SWITCH AUTO/CONSTANT	00, 01	01	
	08	REL	AGC GAIN AT CONSTANT MODE	00 ~ 3F	28	
	09	CRM	CARRIER MUTING ON/OFF	00, 01	00	
	0A	ACO	AUDIO CLOCK OUT ON/OFF	00, 01	01	
	0B	FP	FM PRESCALE FOR NON-M SYSTEM	00 ~ 7F	1B	
	0C	FPM	FM PRESCALE FOR M SYSTEM	00 ~ 7F	32	
	0D	FH	FM PRESCALE FOR HDEV	00 ~ 7F	2D	
	0E	FHM	FM PRESCALE FOR HDEV AND M	00 ~ 7F	65	
	0F	WGP	W/G PRESCALE	00 ~ 7F	2A	
	10	NIP	NICAM PRESCALE	00 ~ 7F	6D	
	11	ERR	AUTO FM SWITCH THRESHOLD	00 ~ FF	50	
	12	VOL	LOUD SPEAKER GAIN 0700h to 07FFh	00 ~ FF	6D	

Category	Item		Function	Data Range	Standerd Data								Device Name
					Common	Twin	TV	Video	Picture Mode				
	No.	Name							Dynamic	Standard	Hi-Fine	Personal	
LTI	00	LDH	HISTOGRAM SEGMENT SELECTION	00, 01	01								TDA9178
	01	CFS	CONTOUR FILTER SELECTION	00, 01	01								
	02	WLB	LETTERBOX WINDOW SWITCH	00, 01	00								
	03	VDC	VIDEO DEPENDENT CORING	00, 01					01	01	01	01	
	04	DEM	DEMONSTRATION MODE	00, 01	00								
	05	CDP	LUMINANCE DELAY	00 ~ 07	04								
	06	OSP	OVERRULE SMART PEAKING	00, 01	00								
	07	WPO	WHITE POINT STRETCH OFF	00, 01	00								
	08	DSK	SKIN TONE SWITCH	00, 01					00	00	00	00	
	09	ASK	SKIN TONE ANGLE SELECTION	00, 01	00								
	0A	WSK	SKIN TONE WIDTH SELECTION	00, 01	00								
	0B	SSK	SKIN TONE SIZE SELECTION	00, 01	00								
	0C	DGR	GREEN ENHANCEMENT SWITCH	00, 01		00			*	01	00	01	
	0D	DGT	THRESHOLD OF GREEN ENHANCEMENT SWITCH	00 ~ 07	07								
	0E	GGR	GREEN ENHANCEMENT GAIN	00, 01	00								
	0F	WGR	GREEN ENHANCEMENT WIDTH	00, 01	00								
	10	SGR	GREEN ENHANCEMENT SIZE	00, 01	00								
	11	DBL	BLUE STRETCH SWITCH	00, 01	00								
	12	GBL	BLUE STRETCH GAIN SELECTION	00, 01	00								
	13	SBL	BLUE STRETCH SIZE SELECTION	00, 01	00								
	14	CDS	COLOR DEPENDENT SHARPNESS	00, 01					01	01	01	01	
	15	CST	THRESHOLD OF COLOR DEPENDENT SHARPNESS	00 ~ 07	07								
	16	CTI	COLOR TRANSIENT IMPROVEMENT	00, 01					00	00	00	00	
	17	BON	BLACK OFFSET COMPENSATION	00, 01					00	00	00	00	
	18	BTD	ADAPTIVE BLACK STRETCH	00 ~ 3F					00	00	00	00	
	19	NLD	NON-LINEARITY AMPLIFIER	00 ~ 3F		00			13	13	05	13	
	1A	NLW	STEP WIDTH OF NON-LINEARITY AMPLIFIER	00 ~ 07	07								
	1B	VGD	VARIABLE GAMMA	00 ~ 3F		1F			15	15	1A	15	
	1C	VGW	STEP WIDTH OF VARIABLE GAMMA	00 ~ 07	00								
	1D	PKD	PEAKING AMPLITUDE	00 ~ 3F					32	32	1D	32	
	1E	PKW	STEP WIDTH OF PEAKING AMPLITUDE	00 ~ 0F	08								
	1F	SPD	STEEPNESS CORRECTION	00 ~ 3F					00	00	00	00	
	20	CRD	CORING LEVEL	00 ~ 3F					14	0D	05	14	
	21	CRW	STEP WIDTH OF CORING LEVEL	00 ~ 0F	09								
	22	CRO	CORING LEVEL OFFSET FOR VIDEO MODE	00 ~ 0F	05								
	23	LWD	LINE WIDTH CORRECTION	00 ~ 3F	1F								
	24	SNM	S/N MODE UNDER UNRELIABLE S/N CONDITION	00 ~ 07	00								
	25	SNC	S/N RATIO AVERAGE COUNTER	00 ~ 0F			03	03					
	26	FMC	FEATURE MODE MATCHING COUNTER	00 ~ 0F	02								

* Mark Data Value GE/HK/ME model: 01
AUS model: 00

Category	Item		Function	Data Range	Standerd Data										Device Name
					50 Hz (PAL)					60 Hz (NTSC)					
	No.	Name			DRC1250	PIP	TWIN	INDEX	DRC100	DRC1250	PIP	TWIN	INDEX	DRC100	
MID	00	HPH	HORIZONTAL ACTIVE DISPLAY AREA PHASE	00 ~ FF	3E	3E	7B	78	3E	49	49	6F	6C	49	MB94918
	01	VPH	VERTICAL ACTIVE DISPLAY AREA PHASE	00 ~ 3F	15	15	20	1A	0C	25	25	2E	2D	13	
	02	HSZ	HORIZONTAL ACTIVE DISPLAY AREA SIZE	00 ~ FF	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	
	03	VSZ	VERTICAL ACTIVE DISPLAY AREA SIZE	00 ~ FF	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	
	04	HPW	DISPLAY H-SYNC PULSE WIDTH	00 ~ 3F	3F	3F	3F	3F	3F	3F	3F	3F	3F	3F	
	05	VPW	DISPLAY V-SYNC PULSE WIDTH	00 ~ 07	03	03	03	03	03	03	03	03	03	03	
	06	YDL	DISPLAY OUTPUT Y/C DELAY CORRECTION	00 ~ 3F	00	00	00	00	00	00	00	00	00	00	
	07	MHP	MAIN PICTURE HORIZONTAL POSITION (SINGLE & PIP)	00 ~ FF	7F	7F			7F	7F	7F			7F	
	08	MVP	MAIN PICTURE VERTICAL POSITION (SINGLE & PIP)	00 ~ FF	7F	7F			7F	7F	7F			7F	
	09	MHS	MAIN PICTURE HORIZONTAL SIZE (SINGLE & PIP)	00 ~ FF	7F	7F			7F	7F	7F			7F	
	0A	MVS	MAIN PICTURE VERTICAL SIZE (SINGLE & PIP)	00 ~ FF	7F	7F			7F	7F	7F			7F	
	0B	PHP	PIP SUB PICTURE HORIZONTAL POSITION	00 ~ FF		6B					53				
	0C	PVP	PIP SUB PICTURE VERTICAL POSITION	00 ~ FF		5E					57				
	0D	PHS	PIP SUB PICTURE HORIZONTAL SIZE	00 ~ FF		7F					7F				
	0E	PVS	PIP SUB PICTURE VERTICAL SIZE	00 ~ FF		7F					7F				
	0F	PHO	PIP SUB PICTURE HORIZONTAL POSITION OFFSET	00 ~ FF		76					68				
	10	PVO	PIP SUB PICTURE VERTICAL POSITION OFFSET	00 ~ FF		6E					6B				
	11	TMP	TWIN MAIN PICTURE HORIZONTAL POSITION	00 ~ 03			01								
	12	TSP	TWIN SUB PICTURE HORIZONTAL POSITION	00 ~ FF			00								
	13	TVP	TWIN MAIN & SUB PICTURE VERTICAL POSITION	00 ~ FF											
	14	THS	TWIN MAIN & SUB PICTURE HORIZONTAL SIZE	00 ~ FF											
	15	TVS	TWIN MAIN & SUB PICTURE VERTICAL SIZE	00 ~ FF											
	16	THO	TWIN MAIN & SUB PICTURE HORIZONTAL POSITION OFFSET	00 ~ FF											
	17	TVO	TWIN MAIN & SUB PICTURE VERTICAL POSITION OFFSET	00 ~ FF											
	18	XHS	INDEX SUB PICTURE HORIZONTAL SIZE	00 ~ FF											
	19	XVS	INDEX SUB PICTURE VERTICAL SIZE	00 ~ FF											
	1A	XHG	INDEX HORIZONTAL GAP WIDTH BETWEEN PICTURES	00 ~ FF											
	1B	XVG	INDEX VERTICAL GAP WIDTH BETWEEN PICTURES	00 ~ FF											
	1C	XHP	INDEX 1st SUB PICTURE HORIZONTAL POSITION	00 ~ FF											
	1D	XVP	INDEX 1st SUB PICTURE VERTICAL POSITION	00 ~ FF											
	1E	DHP	DRC HORIZONTAL ACTIVE AREA POSITION	00 ~ FF	7F		7F		7F	7F		7F		7F	
	1F	DHS	DRC HORIZONTAL ACTIVE AREA PIXEL SIZE	00 ~ FF	7F		7F		7F	7F		7F		7F	
	20	DVP	DRC VERTICAL ACTIVE ARE LINE POSITION	00 ~ 3F	1A		3F		1A	1A		39		1A	
	21	DVS	DRC VERTICAL ACTIVE AREA LINE SIZE	00 ~ FF	7F		7F		7F	7F		7F		7F	
	22	VHP	VDO HORIZONTAL ACTIVE AREA POSITION	00 ~ FF		7F					7F				
	23	VHS	VDO HORIZONTAL ACTIVE AREA PIXEL SIZE	00 ~ FF		7F					7F				
	24	VEP	VDO VERTICAL ACTIVE AREA EVEN POSITION	00 ~ 3F		1E					1B				
	25	VVS	VDO VERTICAL ACTIVE AREA LINE SIZE	00 ~ FF		7F					7F				
	26	VOP	VDO VERTICAL ACTIVE AREA ODD POSITION	00 ~ 03		00					00				
	27	CLT	VDO CLAMP PULSE OUTPUT TIMING	00 ~ FF		7F					7F				
	28	CLW	VDO CLAMP PULSE WIDTH	00 ~ 07		04					04				
	29	VYD	VDO ANALOG INPUT Y/C DELAY CORRECTION	00 ~ 3F		00					00				
	2A	VCR	VDO CHROMA SIGNAL ORDER	00, 01		01					01				
	2B	VDI	VDO DIGITAL ANGLE INPUT SELECTION	00 ~ 03		01					01				

Category	Item		Function	Data Range	Standerd Data												Device Name
					Common	TV	Video	NR Mode				Picture Mode					
	No.	Name						NR Mode 0	NR Mode 1	NR Mode 2	NR Mode 3	Dynamic	Standard	Hi-Fine	Parsonal	
3CM	00	FRZ	EXTERNAL MEMORY TEST BIT	00, 01	00												µPD64082
	01	NRM	NOISE REDUCTION OPERATION MODE	00 ~ 03	00												
	02	YCO	Y/C SINGLE OUTPUT SELECTION	00 ~ 0F	0D												
	03	SYC	SYSTEM CLOCK SELECTION	00 ~ 03	01												
	04	STD	STANDARD/NON-STANDARD OPERATION SELECTION	00 ~ 03	00												
	05	MSS	INTER-FRAME/INTER-LINE OPERATION SELECTION	00 ~ 03	00												
	06	KIL	KILLER/NON-KILLER OPERATION SELECTION	00 ~ 03	03												
	07	EAD	EXTERNAL Y-ADC SWITCH	00, 01	00												
	08	ECS	EXTERNAL C-SYNC INPUT SELECTION	00 ~ 03	01												
	09	CPP	ADC INPUT LEVEL & CLUMP PULSE WIDTH SELECTION	00 ~ 03	02												
	0A	PWR	ADC INPUT WIDTH SWITCH	00, 01	00												
	0B	HDP	HORIZONTAL PHASE ADJUSTMENT	00 ~ 07	05												
	0C	CDL	C-SIGNAL DELAY ADJUSTMENT	00 ~ 07	04												
	0D	DYC	DY DETECTION CORING LEVEL ADJUSTMENT	00 ~ 0F				02	02	02	04						
	0E	DYG	DY DETECTION GAIN ADJUSTMENT	00 ~ 0F				0A	0A	0A	0A						
	0F	DCC	DC DETECTION CORING LEVEL ADJUSTMENT	00 ~ 0F				05	03	03	05						
	10	DCG	DC DETECTION GAIN ADJUSTMENT	00 ~ 0F				05	0A	0A	05						
	11	YNR	YNR NON-LINEAR FILTER SETUP	00 ~ 0F	01												
	12	CNR	CNR NON-LINEAR FILTER SETUP	00 ~ 0F	01												
	13	WSC	NOISE DETECTION CORING ADJUSTMENT	00 ~ 03	01												
	14	VTH	HYSTERESIS SELECTION FOR H-SYNC NON-STANDARD	00 ~ 03		01	01										
	15	VTR	SENSITIVITY SELECTION FOR H-SYNC NON-STANDARD	00 ~ 03		01	01										
	16	LDR	SENSITIVITY SELECTION FOR FRAME-SYNC NON-STANDARD	00 ~ 03		02	01										
	17	VAP	GAIN ADJUSTMENT FOR VERTICAL SHAPE CORRECTION	00 ~ 07								03	02	00	02		
	18	VAI	VANISHING ADJUSTMENT FOR VERTICAL SHAPE CORRECTION	00 ~ 1F								0C	06	00	06		
	19	TST	TEST BIT	00, 01	00												
	1A	YPF	CENTER FREQUENCY SELECTION FOR Y-PEAKING BPF	00 ~ 03								03	03	03	03		
	1B	YPG	GAIN ADJUSTMENT FOR Y-PEAKING BPF	00 ~ 0F								08	08	08	08		
	1C	VSE	LINE COMB FILTER SETUP	00 ~ 0F	0A												
	1D	CCN	C-SIGNAL SPLIT FILTER SWITCH	00, 01	00												
	1E	COS	C-SIGNAL DELAY SWITCH AT NOISE REDUCTION	00, 01	00												
	1F	SDC	DC DETECTION SENSITIVITY SWITCH	00, 01	00												

Category	Item		Function	Data Range	Standerd Data												Device Name
					Common	TV	Video	NR Mode				Picture Mode					
	No.	Name						NR Mode 0	NR Mode 1	NR Mode 2	NR Mode 3	Dynamic	Standard	Hi-Fine	Parsonal	
3CM	20	SDY	DY DETECTION LOWER-LEVEL SENSITIVITY SWITCH	00, 01	01											μPD64082
	21	D2G	D2 GAIN SELECTION	00 ~ 07	04											
	22	YHC	Y-SIGNAL HIGHER-LEVEL CORING SELECTION	00 ~ 03								00	00	00	00	
	23	YHG	Y-SIGNAL HIGHER-LEVEL GAIN SWITCH	00, 01								00	00	00	00	
	24	SHT	NON-STANDARD DETECTION & H/V COUNTER TEST BITS	00 ~ 0F	00											
	25	CLK	CLOCK TEST BITS	00 ~ 0F	08											
	26	PLL	PLL FILTER SETUP	00 ~ 0F	0D											
	27	KRF	KILLER DETECTION REFERENCE ADJUSTMENT	00 ~ 0F	03											
	28	HSL	H-SYNC SLICE LEVEL ADJUSTMENT	00 ~ 0F	0C											
	29	VSL	V-SYNC SLICE LEVEL ADJUSTMENT	00 ~ 0F	08											
	2A	BPS	INTERNAL BURST GATE START POSITION ADJUSTMENT	00 ~ 0F	04											
	2B	BPW	INTERNAL BURST GATE WIDTH ADJUSTMENT	00 ~ 0F	0A											
	2C	ADC	ADC CLOCK DELAY SELECTION	00 ~ 03	03											
	2D	APD	ADC POWER-DOWN SWITCH	00, 01	01											
	2E	NSD	NON-STANDARD DETECTION TEST BIT	00, 01	01											
	2F	SPD	MEMORY POWER-DOWN SWITCH	00 ~ 03	02											
	30	CNT	CNR TEST BIT	00, 01	00											
2CM	00	APA	2D COMB APACON ON/OFF	00, 01												CXA2069Q

Category	Item		Function	Data Range	Standerd Data									Device Name
	No.	Name			Common	Sur VDD	Sur VDP	Sur TRS	Sur SIM	Sur OFF	Dynamic	Drama	Soft	
DSP	00	DUL	DIR UNLOCK DETECTION MODE	00 ~ 03										
	01	DIM	DIGITAL INPUT MODE	00 ~ 03										
	02	TFM	TruSurround FRONT MINUS	00 ~ 7F										
	03	TFP	TruSurround FRONT PLUS	00 ~ 7F										
	04	TCE	TruSurround CENTER	00 ~ 7F										
	05	TS1	TruSurround SURROUND #1	00 ~ FF										
	06	TS2	TruSurround SURROUND #2	00 ~ 7F										
	07	TSP	TruSurround SURROUND PLUS	00 ~ 7F										
	08	TSM	TruSurround SURROUND MINUS	00 ~ 7F										
	09	LFE	LOW FREQUENCY EFFECT	00 ~ 7F										
	0A	BHL	BBE EFFECT 1 FOR BBE HIGH	00 ~ 7F										
	0B	BHH	BBE EFFECT 2 FOR BBE HIGH	00 ~ 7F										
	0C	BLL	BBE EFFECT 1 FOR BBE LOW	00 ~ 7F										
	0D	BLH	BBE EFFECT 2 FOR BBE LOW	00 ~ 7F										
	0E	DLR	DELAY SELECTION AT DSP RESET (100msec to 1500msec)	00 ~ 07										
	0F	BBE	BBE SELECTION	00 ~ 03										

Sur : Surround mode
VDD : Virtual Dolby Digital
VDP : Virtual Dolby Prologic
TRS : Tru Surround
SIM : Simulated

Category	Item		Function	Data Range	Standard Data			Device Name
	No.	Name			Common	50 Hz (PAL)	60 Hz (NTSC)	
TXT	00	TXH	TELETEXT HORIZONTAL POSITION	00 ~ FF	61			SAA5261
	01	TXV	TELETEXT VERTICAL POSITION	00 ~ 3F	0E			

Category : PJE : Fixed data

Item Number	Adjustment Item	Data Range	Standard Data					Name/Description
			DRC1250 (PAL)	DRC100 (PAL)	DRC1250 (NTSC)	DRC100 (NTSC)	DRC1250 VC (NTSC)	
00	FDIS	00,01	00					SELECT REGI DATA DISPLAY OF FINE ADJ
01	OSDH	01 ~ 255	32	32	32	32	32	PJED SERVICE MENU H POSITION
02	OSDV	01 ~ 255	75	55	75	55	65	PJED SERVICE MENU V POSITION
03	FVST	00 ~ 255	54	33	54	33	54	LINE NUMBER OF FINE ADJUST START
04	V1ST	00 ~ 255	00	00	00	00	00	V1 START DATA
05	V1CU	00 ~ 255	25	50	29	58	29	V1 COUNT UP DATA
06	COHP	00 ~ 255	00	00	00	00	00	H-PHASE OF ROUGH ADJ
07	FIHP	00 ~ 255	203	203	203	203	203	H-PHASE OF FINE ADJ
08	TPHP	00 ~ 255	51	51	51	51	51	H-PHASE OF TEST PATTERN
09	DFHP	00 ~ 255	00	00	00	00	00	H-PHASE OF DYNAMIC FOCUS
10	DFHG	–128 ~ 127	–80	–80	–80	–80	–80	H-2 GAIN OF DYNAMIC FOCUS
11	DFVG	–128 ~ 127	–30	–30	–30	–30	–30	V-2 GAIN OF DYNAMIC FOCUS
12	PWM1	00 ~ 255	00					PWM1
13	PWM2	00 ~ 255	29					H-PHASE OF AUTO REGI TEST PATTERN
14	HBLD	00 ~ 255	00					H-PHASE OF RETURNED BLUE V LINE
15	HBLW	00 ~ 63	00					PULSE WIDTH OF RETURNED BLUE V LINE
16	BLKP	00 ~ 255	44					START BLANK PULSE
17	COGV	–128 ~ 127	(*1)					GREEN V CENT OFFSET DATA OF AUTO REGI
18	CORV	–128 ~ 127	(*1)					RED V CENT OFFSET DATA OF AUTO REGI
19	COBV	–128 ~ 127	(*1)					BLUE V CENT OFFSET DATA OF AUTO REGI
20	COGH	–128 ~ 127	(*1)					GREEN H CENT OFFSET DATA OF AUTO REGI
21	CORH	–128 ~ 127	(*1)					RED H CENT OFFSET DATA OF AUTO REGI
22	COBH	–128 ~ 127	(*1)					BULE H CENT OFFSET DATA OF AUTO REGI
23	SOGV	–128 ~ 127	(*1)					GREEN V SKEW OFFSET DATA OF AUTO REGI
24	SORV	–128 ~ 127	(*1)					RED V SKEW OFFSET DATA OF AUTO REGI
25	SOBV	–128 ~ 127	(*1)					BLUE V SKEW OFFSET DATA OF AUTO REGI
26	SOGH	–128 ~ 127	(*1)					GREEN H SKEW OFFSET DATA OF AUTO REGI
27	SORH	–128 ~ 127	(*1)					RED H SKEW OFFSET DATA OF AUTO REGI
28	SOBH	–128 ~ 127	(*1)					BLUE H SKEW OFFSET DATA OF AUTO REGI
29	ERR	FIXED	00					AUTO REGI ERROR CODE
30	ADTM	00 ~ 255	144					TIMING TO GET A/D DATA OF AUTO REGI
31 *2	VUP	01 ~ 255	03	03	01	01	01	AUTO REGI PATTERN UPPER V POSITION
32 *2	VMID	01 ~ 255	135	130	115	110	115	AUTO REGI PATTERN MIDDLE V POSITION
33 *2	VLOW	01 ~ 255	260	255	225	212	225	AUTO REGI PATTERN LOWER V POSITION
34 *2	HPR	01 ~ 510	03	03	01	01	03	AUTO REGI PATTERN H POSITION
35	SFTF	00,01	00					SHIFT ENABLE 00 : DISABLE 01 : ENABLE
36	SFTE	00,01	00					SHIFT FAST 00 : NORMAL 01 : QUICK
37	ACTL	00 ~ 255	00					LOWER BYTE OF COUNTER VALUE
38	ACTH	00 ~ 255	00					HIGHER BYTE OF COUNTER VALUE
GRN	CENT	–512 ~ 511	000/000					GREEN H/V CENT (H CENT *3)
	SKEW	–512 ~ 511	000/000					GREEN H/V SKEW (H SKEW *3)
	SIZE	–512 ~ 511	000/–200					GREEN H/V SIZE (H/V SIZE *3)
	LIN	–512 ~ 511	xxxx/xxxx					GREEN H/V LIN
	KEY	–512 ~ 511	xxxx/xxxx					GREEN H/V KEY
	PIN	–512 ~ 511	xxxx/270					GREEN H/V PIN
BLU	CENT	–512 ~ 511	000/000					BLUE H/V CENT
	SKEW	–512 ~ 511	000/000					BLUE H/V SKEW
	SIZE	–512 ~ 511	000/–200					BLUE H/V SIZE
	LIN	–512 ~ 511	–150/xxxx					BLUE H/V LIN
	KEY	–512 ~ 511	xxxx/–70					BLUE H/V KEY
	PIN	–512 ~ 511	xxxx/270					BLUE H/V PIN
RED	CENT	–512 ~ 511	000/000					RED H/V CENT
	SKEW	–512 ~ 511	000/000					RED H/V SKEW
	SIZE	–512 ~ 511	000/–200					RED H/V SIZE
	LIN	–512 ~ 511	150/xxxx					RED H/V LIN
	KEY	–512 ~ 511	xxxx/–70					RED H/V KEY
	PIN	–512 ~ 511	xxxx/270					RED H/V PIN

VC : WIDE (V-Compressed) MODE
*1 : Set correctly by the automatic registration adjustment.
*2 : It can be adjust if automatic registration adjustment doesn't work.
*3 : It can be adjust Green a little.
xxxx : Cannot change.

Category	Item		Function	Data Range	Standard Data			Device Name
	No.	Name			Common	50 Hz (PAL)	60 Hz (NTSC)	
OPM	00	OSH	OSD H POSITION	00 ~ 3F	0F			CXP750096
	01	FW1	OSD ODD/EVEN FIELD WINDOW SETUP #1	00 ~ 3F	00			OPTION-MISC
	02	FW2	OSD ODD/EVEN FIELD WINDOW SETUP #2	00 ~ 3F	03			
	03	OHO	OSD H POSITION OFFSET FOR INDEX	00 ~ 0F	07			
	04	IL1	INDEX SUB-SCREEN OSD 1st LINE VERTICAL POSITION	00 ~ 3F		22	20	
	05	IVO	INDEX SUB-SCREEN OSD VERTICAL OFFSET	00 ~ 3F		2B	20	
	06	COM	COMB OPERATION SELECTION	00 ~ 03	00			
	07	APC	APC SWITCH	00, 01	01			
	08	TSY	TV SYSTEM SELECTION UNDER SEARCHING WITH AUTO TV SYSTEM	00 ~ 03	00			
	09	MUT	NO SIGNAL MUTE	00, 01	00			
	0A	AFM	AUTO FM SWITCH	00, 01	01			
	0B	TVO	V-ANGLE CORRECTION TO PICTURE ROTATION	00 ~ 07	03			
	0C	DBL	DISABLE BLUEBACK FUNCTION	00, 01	01			
	0D	SSO	SPEED CH SEARCH SELECTION	00 ~ 03	01			
	0E	TRP	MPEG/JPEG NOISE REDUCTION FOR EACH INPUT	00 ~ 3F	00			
	0F	SCH	CH SELECTION FOR SHIPPING CONDITION	00 ~ 7F				
	10	SCA	CABLE/AIR SELECTION FOR SHIPPING CONDITION	00, 01				
	11	DMG	DISABLE MENU-OPERATION GUIDE	00, 01	00			
	12	VSN	ENABLE NOISE REDUCTION IN VIDEO MODE	00, 01	00			
OPB	00	OP1	OPTIONAL BITS 1 (SEE THE SPECIFIED SHEET)	00 ~ FF	E7			OPTION-BITS
	01	OP2	OPTIONAL BITS 2 (SEE THE SPECIFIED SHEET)	00 ~ FF	13			

5-3. Picture Quality Adjustment

5-3-1. Preparation

1. Set in the service mode.
2. Set respective items as follows.

Adjustment Condition

DRC-MF : DRC1250
PICTURE MODE : HI-FINE
TWIN MODE : ON
ECO MODE : OFF
WIDE MODE : OFF

Category	Item		Data
SAJ	00	PIC	3F
	06	DYC	00
	0E	CLO	06
	10	HUO	07
	13	PIO	00
JGL	04	BBT	00
	05	LML	03

3. Connect the oscilloscope probe to the following point on the E board.

Measurement Point

E Board CN4500 :
① pin R100 → VR
⑤ pin B100 → VB

Note : After the adjustment 5-3. Picture Quality Adjustment, these adjustment parameters must be recovered to the original condition.

Original Condition

DRC-MF : DRC1250
PICTURE MODE : HI-FINE
TWIN MODE : ON
ECO MODE : OFF
WIDE MODE : OFF

Category	Item		Data			
			50 TV	50 VIDEO	60 TV	60 VIDEO
SAJ	00	PIC	1F			
	06	DYC	00			
	0E	CLO	0C	0C	0C	0C
	10	HUO	08	08	09	09
	13	PIO	07			
JGL	04	BBT	03			
	05	LML	00			

5-3-2. NTSC Video Input

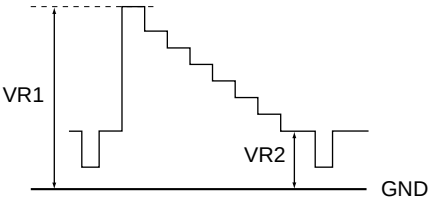
1. Enter the NTSC video color bar (White & color 75%) signal.
2. Enter the service mode, and set respective items as follows.
3. Measure waveform, and each item is adjusted to become the following figure.
4. Press "(SWAP)" button on the commander, when the left screen and the right screen are changed.
5. After adjustment finished, press "(MUTE)" + "⓪" button to write the data to the NVM.

(i) SUB CONTRAST

Condition :

Category	Item		Data
SAJ	00	PIC	3F
	02	COL	00
	13	PIO	00
JGL	01	RGB	04

Adjusting Parameter :
LEFT screen : YCT 08 YOL
RIGHT screen : SYC 08 YOL



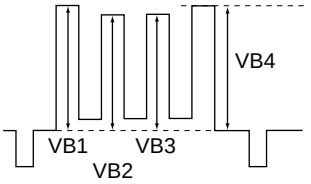
VR1 – VR2 = 1.85 ± 0.07 Vp-p

(ii) SUB HUE/SUB COL

Condition :

Category	Item		Data
SAJ	02	COL	1F
	10	HUO	07
JGL	01	RGB	07

Adjusting Parameter :
LEFT screen : YCT 0A COL
00 TNT
RIGHT screen : SYC 0A COL
00 TNT



VB1 = VB4 ± 70 mV
VB2 = VB3 ± 70 mV

5-3-3. NTSC RF Input

1. Enter the NTSC RF color bar (White & color 75%) signal.
2. Adjust with the same manner as 5-3-2. NTSC Video Input.

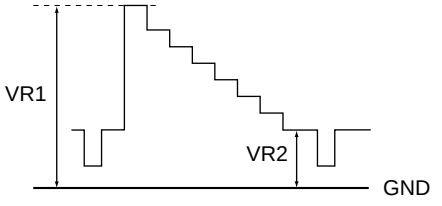
(i) SUB CONTRAST

Condition :

Category	Item		Data
SAJ	00	PIC	3F
	02	COL	00
JGL	01	RGB	04

Adjusting Parameter :

LEFT screen : YCT 04 SCT
RIGHT screen : SYC 04 SCT



VR1 – VR2 = 1.85 ± 0.07 Vp-p

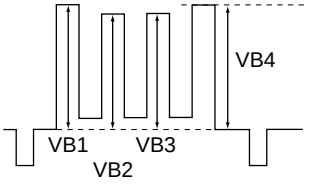
(ii) SUB HUE/SUB COL

Condition :

Category	Item		Data
SAJ	02	COL	1F
	10	HUO	07
JGL	01	RGB	07

Adjusting Parameter :

LEFT screen : YCT 03 SCL
00 TNT
RIGHT screen : SYC 03 SCL
00 TNT



VB1 = VB4 ± 70 mV
VB2 = VB3 ± 70 mV

5-3-4. PAL Video Input

1. Enter the PAL video color bar (White & color 75%) signal.
2. Adjust with the same manner as 5-3-2. NTSC Video Input.

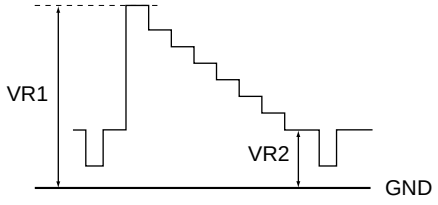
(i) SUB CONTRAST

Condition :

Category	Item		Data
SAJ	00	PIC	3F
	02	COL	00
JGL	01	RGB	04

Adjusting Parameter :

LEFT screen : YCT 04 SCT
RIGHT screen : SYC 00 SCT



VR1 – VR2 = 1.85 ± 0.07 Vp-p

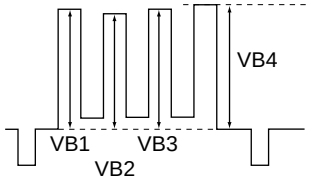
(ii) SUB HUE/SUB COL

Condition :

Category	Item		Data
SAJ	02	COL	1
JGL	01	RGB	07

Adjusting Parameter :

LEFT screen : YCT 03 SCL
RIGHT screen : SYC 03 SCL



VB1 = VB3 = VB4 ± 70 mV
VB2 = VB3 ± 70 mV

5-3-5. PAL RF Input

1. Enter the PAL RF color bar (White & color 75%) signal.
2. Adjust with the same manner as 5-3-2. NTSC Video Input.

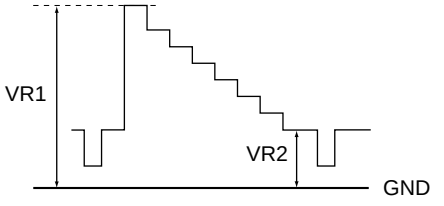
(i) SUB CONTRAST

Condition :

Category	Item	Data
SAJ	00 PIC	3F
	02 COL	00
JGL	01 RGB	04

Adjusting Parameter :

LEFT screen : YCT 04 SCT
RIGHT screen : SYC 04 SCT



VR1 – VR2 = 1.85 ± 0.07 Vp-p

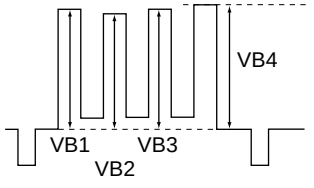
(ii) SUB HUE/SUB COL

Condition :

Category	Item	Data
SAJ	02 COL	1F
JGL	01 RGB	07

Adjusting Parameter :

LEFT screen : YCT 03 SCL
RIGHT screen : SYC 03 SCL



VB1 = VB3 = VB4 ± 70 mV
VB2 = VB3 ± 70 mV

5-4. Color Offset (53 inch model only)

5-4-1. 50 Hz (PAL) TV Mode

1) Enter the PAL RF signal.
2) Enter the service mode, and write the following data to the NVM.

Category	Item	Data
		53 inch
SAJ	0E CLO	0A

5-4-2. 50 Hz (PAL) Video Mode

1) Enter the PAL video signal.
2) Enter the service mode, and write the following data to the NVM.

Category	Item	Data
		53 inch
SAJ	0E CLO	09

5-4-3. 60 Hz (NTSC) TV Mode

1) Enter the NTSC RF signal.
2) Enter the service mode, and write the following data to the NVM.

Category	Item	Data
		53 inch
SAJ	0E CLO	0A

5-4-4. 60 Hz (NTSC) Video Mode

1) Enter the NTSC video signal.
2) Enter the service mode, and write the following data to the NVM.

Category	Item	Data
		53 inch
SAJ	0E CLO	0A

5-5. REGISTRATION ADJUSTMENT

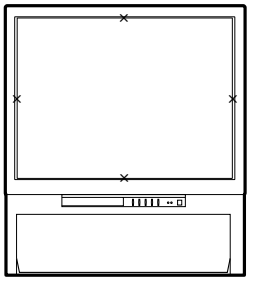
It is adjusted by REGISTRATION ADJUSTMENT respectively in the following 5 modes.

- DRC1250 (50 Hz) mode
- DRC100 (50 Hz) mode
- DRC1250 (60 Hz) mode
- DRC100 (60 Hz) mode
- DRC1250 (60 Hz) WIDE mode

5-5-1. Setup for Adjustment

1. Marking

1) At the 4 insides of the screen, locate the middle. Use a tape measure to identify the middle.



2. Data Setting

1) Set in the DRC1250 (50 Hz) mode.
2) Set in the Service mode, and select the category “PJE”.
3) Press “⑦” + “⓪” button on the commander to read the data from NVM. Then all the default data are restored.
4) Change it to other 4 modes, and set the data with the respectively same process.

Note : When you replaced printed circuit boards or devices or CRTs, and when correction is drastically necessary, press “⑤” +“⓪” (PJE INITIAL) button to initialize the data in the PJE mode.

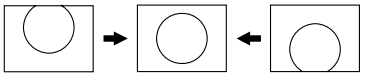
Press “🔇 (MUTE)” + “⓪” buttons on the commander to write the data.

: Be sure to set up the data in the PJE mode. All data initialize it when this operation is done by other categories.

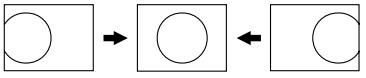
5-5-2. Method of Main Deflection Adjustment

1. Place the caps on the red and blue lenses so that only the green color is displayed.
2. Enter the signal.
3. Set in the Service mode, and select the category “GEO”.
4. Adjust “01 VPS” and “05 HPS” so that the picture is displayed in the center of screen.

01 VPS

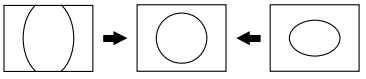


05 HPS

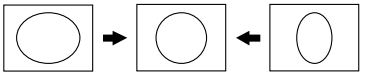


5. Adjust “00 VSZ” and “04 HSZ” so that the picture size is within the specification.

00 VSZ

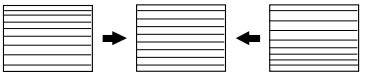


04 HSZ

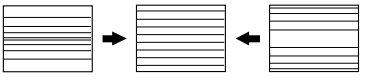


6. Adjust the following items so as to attain the optimum picture.

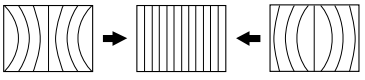
02 VLN



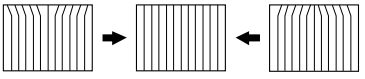
03 SCO



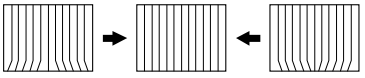
07 PAP



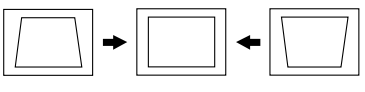
08 UPN



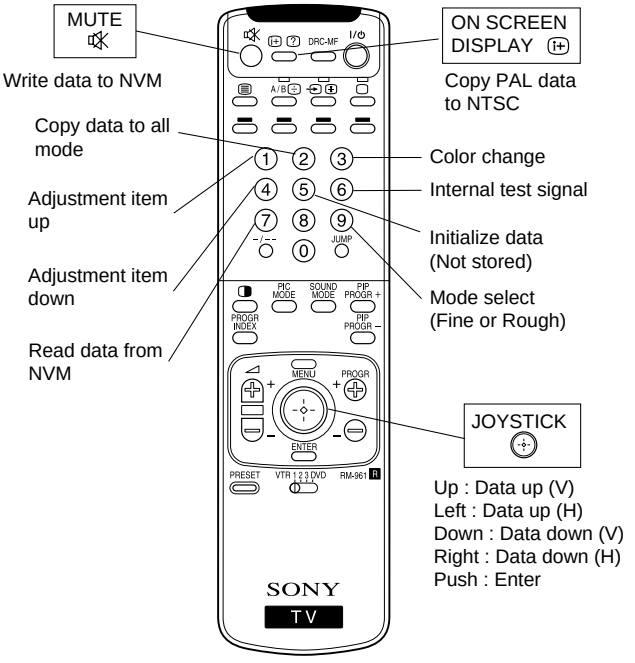
09 LPN



0A TRZ



5-5-3. Operation Method for Projector Engine (PJE) Mode



RM-961

1. Functions of Keys on Commander

- ① : Changes adjustment item. (item No. moves up)
  : Marker moves clockwise from center to outside. (in fine adjustment mode)
- ④ : Changes adjustment item. (item No. moves down)
  : Marker moves counterclockwise from outside to center. (in fine adjustment mode)
- ⊕ : Changes data value. (up, down, or to the left or right)

(move) : Marker moves up, down, or to the left or right. (in fine adjustment mode)

- ③ : Changes adjustment color. (except item No. 00~38) GRN ➔ BLU ➔ RED
- ⑥ : Displays or changes internal test signals.
  : crosshatch + external signal ➔ dot + external signal ➔ crosshatch only ➔ dot only ➔ off
- ⑨ : Switches adjustment mode. rough adjustment mode ➔ fine adjustment mode
- ⊕ : Switches marker moving method.

(push) (in fine adjustment mode)

Commander Function (PJE mode)

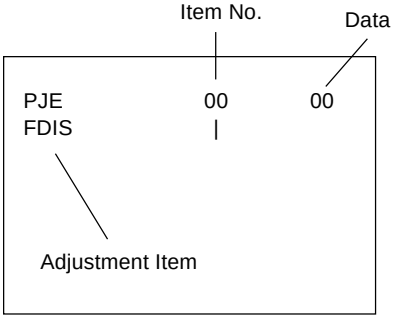
Button	Mode	Description
MUTE + ⓪	WRITE	Writes data to NVM.
⑦ + ⓪	READ	Reads data from NVM.
⑤ + ⓪	*PJE INITIAL	Service data initialization. Not stored. (Be sure not to use usually)
② + ⓪	*PJE COPY	Copies and writes data of DRC1250 (50Hz) mode to all other modes.
ON SCREEN + ⓪	*PJE WRT5060	Copies data of 50 Hz (PAL) mode to 60 Hz (NTSC) mode.

* : only data in the PJE mode.

joystick key ➔ ① and ④ buttons

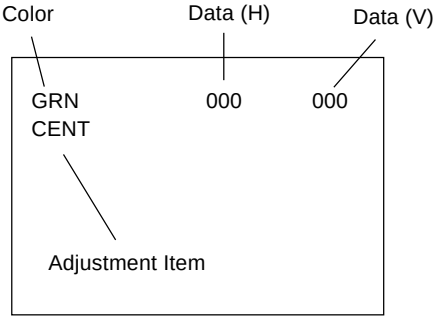
2. Operation Method for Rough Adjustment

1) Set in the Service mode, and select the category "PJE".
2) Press "①" or "④" button on the commander to select the item, and move "⊕" up, down, or to the left or right to



change the data.

3) Select item "GRN CENT". When BLU or RED is displayed, press "③" button on the commander to change the adjustment color in the order of GRN ➔ BLU ➔ RED.
4) In the GRN, BLU, or RED mode, move "⊕" up or down to change the data in vertical direction, or move "⊕" to the



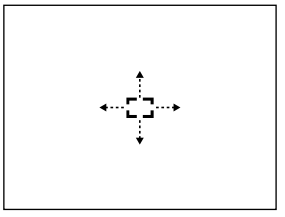
left or right to change the data in horizontal direction.

5) When it moves from PJE to other categories, repeat "①" or "④" button and press it.

3. Operation Method for Fine Adjustment (in GRN, BLU, or RED Mode)

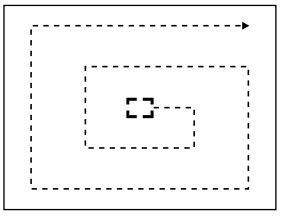
1) Set in the Service mode, and select the category “PJE”.
2) Select item “FDIS” so that the data at each position can be displayed in the fine adjustment mode, and set the data to “01”.
3) Press “⑨” button on the commander, and the fine adjustment mode will be active where a green marker appears in the center of screen (in the case of GRN mode).
4) Push “ (ENTER)” button, and the marker color will be switched between green (GRN mode) and white alternately.
5) Use “①” or “④” button on the commander, or the joystick to move the marker to the position to be adjusted, where fine adjustment can be made.

• When marker color is white.
(in this case, fine adjustment is disabled)



Operating the joystick can move the marker up, down, or to the left or right freely.

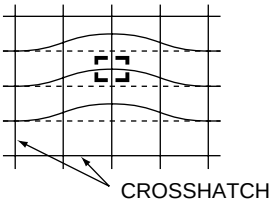
• When marker color is green. (GRN mode)



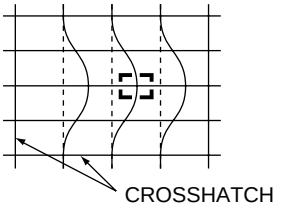
① : moves the marker clockwise from center to outside.
④ : moves the marker counterclockwise from outside to center.

• Fine adjustment can be made on the basis of marker position using joystick key.

Movement when joystick key is moved up.



Movement when joystic key is moved to the right.



6) Press “⑨” button on the commander to return to the rough adjustment mode.

5-5-4. Method of Projector Engine Adjustment (Sub Deflection Adjustment)

Adjustment ○ : Yes – : No

Adjustment Item	Adjustment Type		
	GRN	RED	BLU
	H / V	H / V	H / V
CENT	○ / ○	○ / ○	○ / ○
SKEW	○ / ○	○ / ○	○ / ○
SIZE	○ / ○	○ / ○	○ / ○
LIN	– / –	○ / –	○ / –
KEY	– / –	– / ○	– / ○
PIN	– / ○	– / ○	– / ○

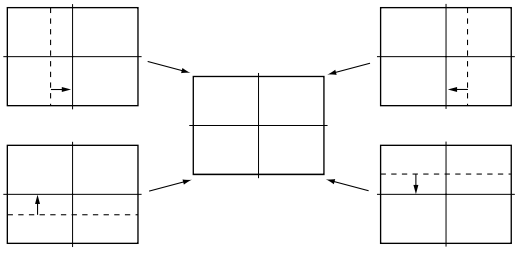
1. Green Adjustment

1) Place the caps on the red and blue lenses so that only the green color is displayed.
2) Enter the signal.
3) Set in the Service mode, and select the category “PJE”.
4) Press “⑥” button on the commander to display internal test signal (crosshatch).
5) Select “GRN CENT”, and adjust so that the picture coincide in the center of screen.

• GRN CENT (horizontally/vertically)

Move the joystick to the right.

Move the joystick to the left.

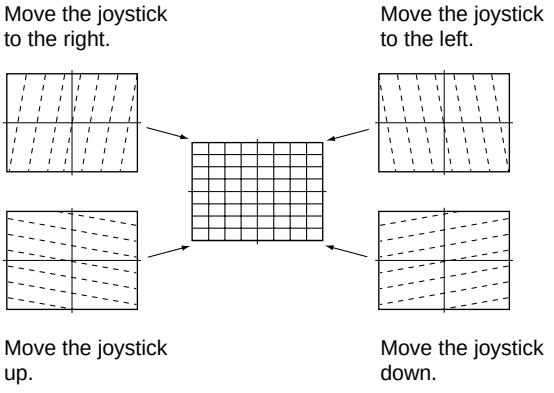


Move the joystick up.

Move the joystick down.

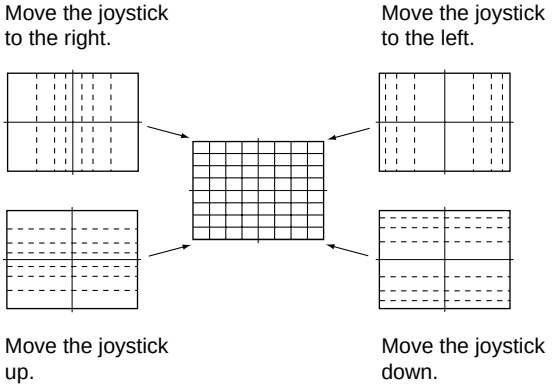
6) Select “GRN SKEW”, and correct the tilt of horizontal lines and vertical lines.

• GRN SKEW (horizontally/vertically)



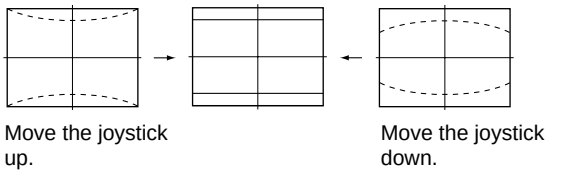
7) Select “GRN SIZE”, and adjust so that each distance from center to left end and to right end is equal. Adjust so that each distance from center to top and to bottom is equal.

• GRN SIZE (horizontally/vertically)



8) Select “GRN PIN”, and adjust so that upper and lower horizontal lines on the screen become straight.

• GRN PIN (vertically)

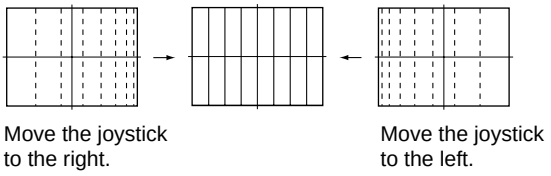


9) Press “⑨” button on the commander to enter the fine adjustment mode.
10) Make fine adjustment so that horizontal lines and vertical lines become straight.
11) Press “⑨” button on the commander to return to the rough adjustment mode.

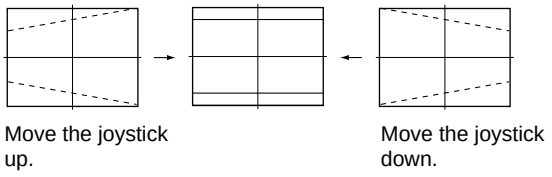
2. Blue Adjustment

1) Place a cap on the red lens so that green and blue colors are displayed.
2) Press “③” button on the commander to select BLU mode.
3) Adjust the following items so that blue lines overlap with green lines.

• BLU CENT (horizontally/vertically)
• BLU SKEW (horizontally/vertically)
• BLU SIZE (horizontally/vertically)
• BLU LIN (horizontally)
Adjust so that each space at the right end and at the left end of screen is equal.



• BLU KEY (vertically)
Adjust so that upper and lower horizontal lines on the screen become parallel.



• BLU PIN (vertically)

4) Press “⑨” button on the commander to enter the fine adjustment mode.
5) Make fine adjustment so that horizontal lines and vertical lines overlap with green lines.
6) Press “⑨” button on the commander to return to the rough adjustment mode.

3. Red Adjustment

1) Place a cap on the blue lens so that green and red colors are displayed.
2) Press “③” button on the commander to select RED mode.
3) Hereinafter, use same manner as that of blue adjustment to adjust so that the red lines overlap with green lines.

5-5-5. Deflection Adjustment

1. DRC1250 50 Hz (PAL) Mode

1) Enter the PAL SPCB signal, and set the DRC1250.
2) Set in the service mode, and write the following data to NVM.

Condition :

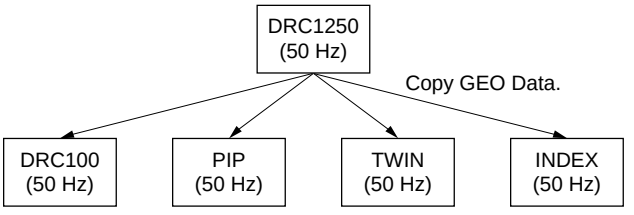
Category	Item		Data
GEO	0B	AGL	07
	0C	BOW	07
	15	VSC	1F
MID	00	HPH	3E
	01	VPH	15

3) Adjust the main deflection. (Refer to 5-5-2.)

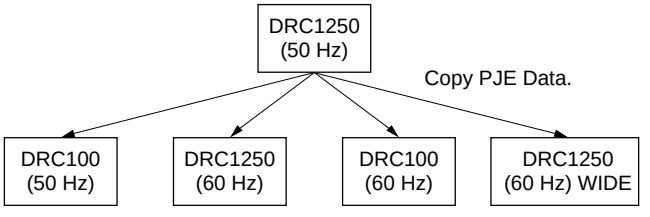
SPEC Overscan Spec. = 7.5%

Input Signal	H SIZE	V SIZE
PAL SPCB	16.6 ± 0.1 sq.	12.5 ± 0.1 sq.

4) After the Main Deflection Adjustment finished, press "🔇 (MUTE)"+"⓪" buttons on the commander to write the data to the NVM.
5) Select the category "GEO" and the item "19 CPY", and set the data to "01".
   Press "🔇 (MUTE)"+"⓪" buttons to copy GEO data to other 50 Hz modes



6) Adjust the sub deflection (Projector Engine Adjustment). (Refer to 5-5-3.)
7) After the Projector Engine Adjustment finished, press "🔇 (MUTE)"+"⓪" buttons on the commander to write the data to the NVM.
8) Press "②"+"⓪" buttons to copy PJE data to all other modes in the PJE mode.



2. DRC100 50 Hz (PAL) Mode

1) Enter the PAL SPCB signal, and set the DRC100.
2) Set in the service mode, and write the following data to NVM.

Condition :

Category	Item		Data
GEO	0B	AGL	07
	0C	BOW	07
	15	VSC	1F
MID	00	HPH	3E
	01	VPH	0C

3) Adjust the main deflection. (Refer to 5-5-2.)

SPEC Overscan Spec. = 7.5%

Input Signal	H SIZE	V SIZE
PAL SPCB	16.6 ± 0.1 sq.	12.5 ± 0.1 sq.

4) After the Main Deflection Adjustment finished, press "🔇 (MUTE)"+"⓪" buttons on the commander to write the data to the NVM.
5) Adjust the sub deflection (Projector Engine Adjustment). (Refer to 5-5-3.)
6) After the Projector Engine Adjustment finished, press "🔇 (MUTE)"+"⓪" buttons on the commander to write the data to the NVM.

3. PIP 50 Hz (PAL) Mode

1) Enter the PAL SPCB signal, and set in the service mode.
2) Open the remote control cover, press "◔ (PIP)" button on the commander to set the PIP mode.
3) Confirm and set the following data.

Condition :

Category	Item		Data
GEO	00	VSZ	Same as DRC1250 50 Hz (PAL) mode
	01	VPS	
	02	VLN	
	03	SCO	
	04	HSZ	
	05	HPS	
	07	PAP	
	08	UPN	
	09	LPN	
	0A	TRZ	
	0B	AGL	07
	0C	BOW	07
	15	VSC	1F
MID	00	HPH	3E
	01	VPH	15

4) Press "🔇 (MUTE)"+"⓪" buttons on the commander to write the data to the NVM.

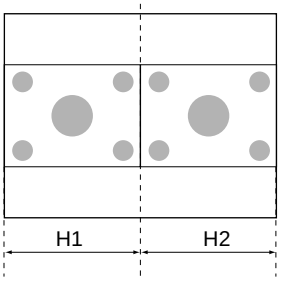
4. TWIN 50 Hz (PAL) Mode

1) Enter the PAL SPCB signal, and set in the service mode.
2) Press "◑ (TWIN)" button on the commander to set the TWIN mode.
3) Confirm and set the following data.

Condition :

Category	Item		Data
GEO	00	VSZ	Same as DRC1250 50 Hz (PAL) mode
	01	VPS	
	02	VLN	
	03	SCO	
	04	HSZ	
	05	HPS	
	07	PAP	
	08	UPN	
	09	LPN	
	0A	TRZ	
	0B	AGL	07
	0C	BOW	07
	15	VSC	1F
MID	00	HPH	7B
	01	VPH	20
	11	TMP	01
	12	TSP	00

4) Select the category "GEO" and the item "05 HPS", and adjust the horizontal position.



H1 – H2 = ± 0.1 sq.

5) Press "🔇 (MUTE)"+"⓪" buttons on the commander to write the data to the NVM.

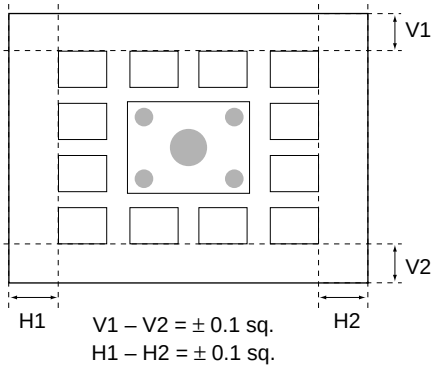
5. INDEX 50 Hz (PAL) Mode

1) Enter the PAL SPCB signal, and set in the service mode.
2) Press "PROGR INDEX" button on the commander to set the INDEX mode.
3) Confirm and set the following data.

Condition :

Category	Item		Data
GEO	00	VSZ	Same as DRC1250 50 Hz (PAL) mode
	01	VPS	
	02	VLN	
	03	SCO	
	04	HSZ	
	05	HPS	
	07	PAP	
	08	UPN	
	09	LPN	
	0A	TRZ	
	0B	AGL	07
	0C	BOW	07
	15	VSC	1F
MID	00	HPH	78
	01	VPH	1A

4) Select the category "GEO" and the item "05 HPS" to adjust the horizontal position, and select the item "01 VPS" to adjust the vertical position.



5) Press "🔇 (MUTE)"+"⓪" buttons on the commander to write the data to the NVM.

6. DRC1250 60 Hz (NTSC) Mode

1) Enter the NTSC monoscope signal, and set the DRC1250.
2) Set in the service mode, and write the following data to NVM.

Condition :

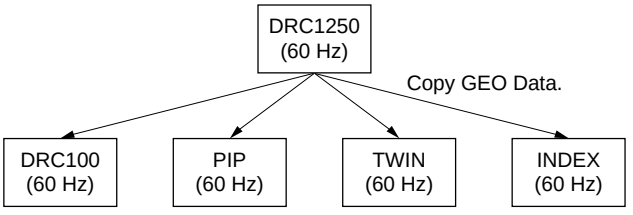
Category	Item		Data
GEO	0B	AGL	07
	0C	BOW	07
	15	VSC	22
MID	00	HPH	49
	01	VPH	25

3) Adjust the main deflection. (Refer to 5-5-2.)

SPEC Overscan Spec. = 7.5%

Input Signal	H SIZE	V SIZE
NTSC monoscope	15.7 ± 0.1 sq.	11.8 ± 0.1 sq.

4) After the Main Deflection Adjustment finished, press "🔇 (MUTE)"+"⓪" buttons on the commander to write the data to the NVM.
5) Select the category "GEO" and the item "19 CPY", and set the data to "01".
   Press "🔇 (MUTE)"+"⓪" buttons to copy GEO data to other 60 Hz modes



6) Adjust the sub deflection (Projector Engine Adjustment). (Refer to 5-5-3.)
7) After the Projector Engine Adjustment finished, press "🔇 (MUTE)"+"⓪" buttons on the commander to write the data to the NVM.

7. DRC100 60 Hz (NTSC) Mode

1) Enter the NTSC monoscope signal, and set the DRC100.
2) Set in the service mode, and write the following data to NVM.

Condition :

Category	Item		Data
GEO	0B	AGL	07
	0C	BOW	07
	15	VSC	22
MID	00	HPH	49
	01	VPH	13

3) Adjust the main deflection. (Refer to 5-5-2.)

SPEC Overscan Spec. = 7.5%

Input Signal	H SIZE	V SIZE
NTSC monoscope	15.7 ± 0.1 sq.	11.8 ± 0.1 sq.

4) After the Main Deflection Adjustment finished, press "🔇 (MUTE)"+"⓪" buttons on the commander to write the data to the NVM.
5) Adjust the sub deflection (Projector Engine Adjustment). (Refer to 5-5-3.)
6) After the Projector Engine Adjustment finished, press "🔇 (MUTE)"+"⓪" buttons on the commander to write the data to the NVM.

8. PIP 60 Hz (NTSC) Mode

1) Enter the NTSC monoscope signal, and set in the service mode.
2) Open the remote control cover, press "◔ (PIP)" button on the commander to set the PIP mode.
3) Confirm and set the following data.

Condition :

Category	Item		Data
GEO	00	VSZ	Same as DRC1250 60 Hz (NTSC) mode
	01	VPS	
	02	VLN	
	03	SCO	
	04	HSZ	
	05	HPS	
	07	PAP	
	08	UPN	
	09	LPN	
	0A	TRZ	
	0B	AGL	07
	0C	BOW	07
	15	VSC	22
MID	00	HPH	49
	01	VPH	25

4) Press "🔇 (MUTE)"+"⓪" buttons on the commander to write the data to the NVM.

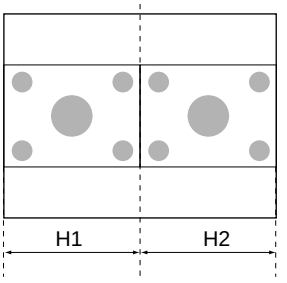
9. TWIN 60 Hz (NTSC) Mode

1) Enter the NTSC monoscope signal, and set in the service mode.
2) Press "◑ (TWIN)" button on the commander to set the TWIN mode.
3) Confirm and set the following data.

Condition :

Category	Item		Data
GEO	00	VSZ	Same as DRC1250 60 Hz (NTSC) mode
	01	VPS	
	02	VLN	
	03	SCO	
	04	HSZ	
	05	HPS	
	07	PAP	
	08	UPN	
	09	LPN	
	0A	TRZ	
	0B	AGL	07
	0C	BOW	07
	15	VSC	22
MID	00	HPH	6F
	01	VPH	2E
	11	TMP	01
	12	TSP	00

4) Select the category "GEO" and the item "05 HPS", and adjust the horizontal position.



H1 – H2 = ± 0.1 sq.

5) Press "🔇 (MUTE)"+"⓪" buttons on the commander to write the data to the NVM.

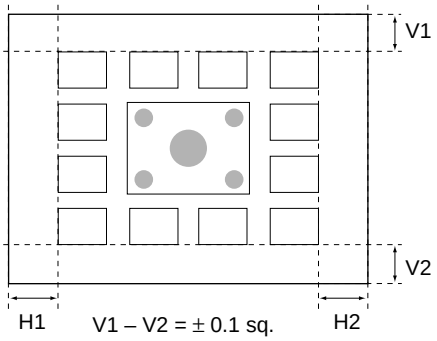
10.INDEX 60 Hz (NTSC) Mode

1) Enter the NTSC monoscope signal, and set in the service mode.
2) Press "PROGR INDEX" button on the commander to set the INDEX mode.
3) Confirm and set the following data.

Condition :

Category	Item		Data
GEO	00	VSZ	Same as DRC1250 60 Hz (NTSC) mode
	01	VPS	
	02	VLN	
	03	SCO	
	04	HSZ	
	05	HPS	
	07	PAP	
	08	UPN	
	09	LPN	
	0A	TRZ	
	0B	AGL	07
	0C	BOW	07
	15	VSC	22
MID	00	HPH	6C
	01	VPH	2D

4) Select the category "GEO" and the item "05 HPS" to adjust the horizontal position, and select the item "01 VPS" to adjust the vertical position.



V1 – V2 = ± 0.1 sq.
H1 – H2 = ± 0.1 sq.

5) Press "🔇 (MUTE)"+"⓪" buttons on the commander to write the data to the NVM.

11.DRC1250 WIDE 60 Hz (NTSC) Mode

1) Enter the NTSC monoscope signal and set the DRC1250.
2) Press "MENU" button on the commander and move "⊕" up or down to enter the "FEATURE" ➡ "WIDE MODE".
3) Select "WIDE MODE : ON", and push "⊕ (ENTER)" button.
4) Press "MENU" button to return to service mode screen.
5) Set in the service mode and write the following data to NVM.

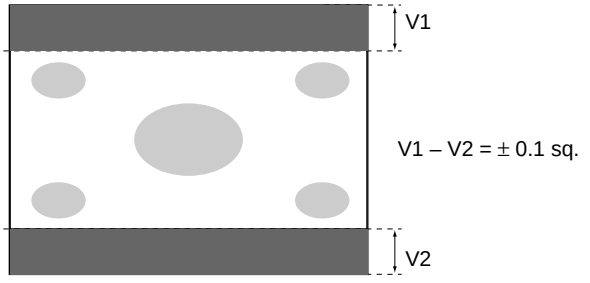
Condition :

Category	Item		Data
GEO	0B	AGL	07
	0C	BOW	07
	14	VAS	2C
	15	VSC	22
	16	USC	01
	17	VBW	03

3) Adjust the main deflection. (Refer to 5-5-2.)

SPEC

Input Signal	H SIZE
NTSC monoscope	15.7 ± 0.1 sq.



4) After the Main Deflection Adjustment finished, press "🔇 (MUTE)"+"⓪" buttons on the commander to write the data to the NVM.
5) Adjust the sub deflection (Projector Engine Adjustment). (Refer to 6-5-3.)
6) After the Projector Engine Adjustment finished, press "🔇 (MUTE)"+"⓪" buttons on the commander to write the data to the NVM.

12.PIP WIDE 60 Hz (NTSC) Mode

1) Enter the NTSC monoscope signal and set in the service mode.
2) Set the WIDE mode and open the remote control cover, press "▭ (PIP)" button on the commander to set the PIP mode.
3) Confirm and write the following data.

Condition :

Category	Item		Data
GEO	00	VSZ	Same as DRC1250 WIDE 60 Hz (NTSC) mode
	01	VPS	
	02	VLN	
	03	SCO	
	04	HSZ	
	05	HPS	
	07	PAP	
	08	UPN	
	09	LPN	
	0A	TRZ	
	0B	AGL	07
	0C	BOW	07
	14	VAS	2C
	15	VSC	22
	17	VBW	03

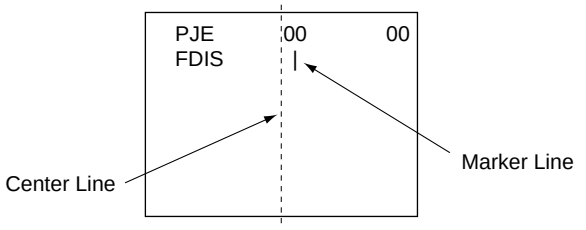
4) Press "🔇 (MUTE)"+"⓪" buttons on the commander to write the data to the NVM.

Note : Incase of replacing CRTs, adjust the set-up adjustments (items 3-1 to 3-7) and the registration adjustment (item 5-5).
In case of replacing two or three CRTs at the same time, replace and adjust one by one.

5-6. AUTO CONVERGENCE SETTING

This adjustment must be performed after the registration adjustment was made or after readjustment was made by any reason.

1. Darken the periphery of this set.
2. Enter the PAL SPCB signal, and set the DRC100 mode.
3. Set in the service mode, and select the category “PJE” and the item “PWM2”.
4. Adjust “PWM2” so that the marker line is on monoscope center line.



5. Press “🔇 (MUTE)”+“⓪” buttons on the commander to write the data to the NVM.
6. Press “⊞ (AUTO CONVERGENCE)” button on the front panel of the set.
   (The offset value is now automatically stored.)
7. Check that no error message appears.
   If an error message appears, recheck. (Refer to 5-8.)
8. In the same manner, select DRC100 mode respectively, and press the “⊞ (AUTO CONVERGENCE)” button.
9. Enter the NTSC monoscope signal, and perform the same steps in the DRC1250, DRC100 and DRC1250 WIDE modes respectively.

5-7. WHITE BALANCE ADJUSTMENT

1. Enter the monoscope signal.
2. Set in the service mode.
3. Press “MENU” button on the commander to select “A/V CONTROL” ➧ “PICTURE MODE” ➧ ”ADJUST”.

Adjustment Condition

PICTURE MODE : PERSONAL
PICTURE : 0%
BRIGHT : 50%

If the noise of DCF (Digital Comb Filter) has an effecting white balance adjustment, change service data as follows while the adjustment.

OPM 06 COM : 00 → 01

(This time, beginning inspection also should be done under some condition.)

Adjusting Parameter

Category	Item	
WHB	02	SBR
	03	RDR
	05	BDR
	06	RCT
	08	BCT

4. Adjust “02 SBR” so that 10 IRE section barely grows.
3. Enter the all-white pattern signal.
6. Adjust “06 RCT” and “08 BCT” so as to attain the optimum white balance.
7. Adjust “02 SBR” so that 100 IRE section barely grows.
8. Adjust “03 RDR” and “05 BDR” so as to attain the optimum white balance.
9. Repeatedly adjust the white balance for the minimum and maximum picture setting.
10. Enter the monoscope signal, and select “SAJ 00 PIC”, and set the data to “00”.
11. Adjust “02 SBR” so that the border between 0 IRE and 10 IRE becomes distinct.

5-8. AUTO CONVERGENCE ERROR CODE LIST

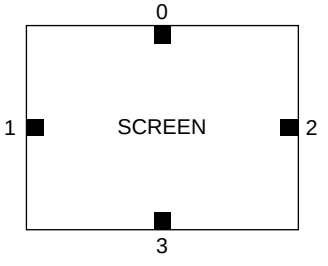
If an error code is displayed after the set has been fully adjusted, correctly, plese check the following items : position, tilt and sizing. If either of these adjustments are off, even slightli, the auto registration pattern will not hit the four sensors properly. This occurs when the internal generator patterns is being flashed on the screen for the sensor to read. Therefore, auto registration (called auto convergence) cannot operate properly causing an error code to be displayed. In order for this function to operate properly, correct position, tilt and size must be adjusted properly.

ERROR CODE LIST

ERROR CODE	DESCRIPTION	NOTE
00	No Error	
10	Sensor Input Level Low	* Check wiring, beam position, sensor. 0 : Upper Center 1 : Middle Left 2 : Middle Right 3 : Lower Center
20	Sensor Input Level High	* Check OP-Amp circuit. 0 : Upper Center 1 : Middle Left 2 : Middle Right 3 : Lower Center
30	Loop Limit Over	* Check the registration information on the convergence board.
40	Regi Data Overflow	* Check the convergence yoke driver ICs.
50	Regi Data Overdraw	
60	Offset Data Overflow	* Convergence patterns displayed are out of normal range.
70	Offset Data Overdraw	

* : In case of multiple error, last error is displayed.

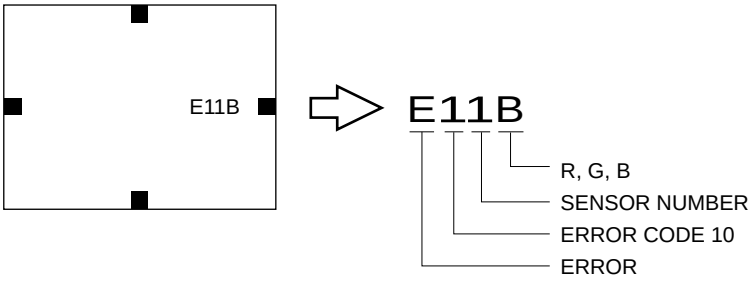
[SENSOR POSITION]



0 : UPPER SENSOR
1 : LEFT SENSOR
2 : RIGHT SENSOR
3 : LOWER SENSOR

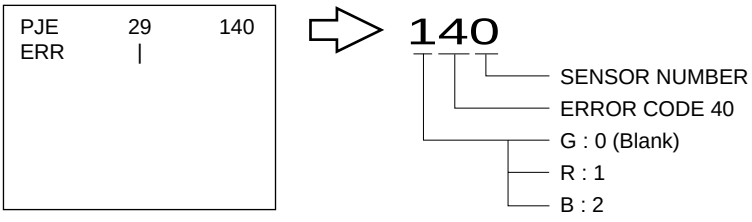
• ERROR CODE SCREEN DISPLAY

(When press "⊞ (AUTO CONVERGENCE)" button.)



• ERROR CODE SCREEN DISPLAY

(When select "PJE" ➡ "29 ERR".)

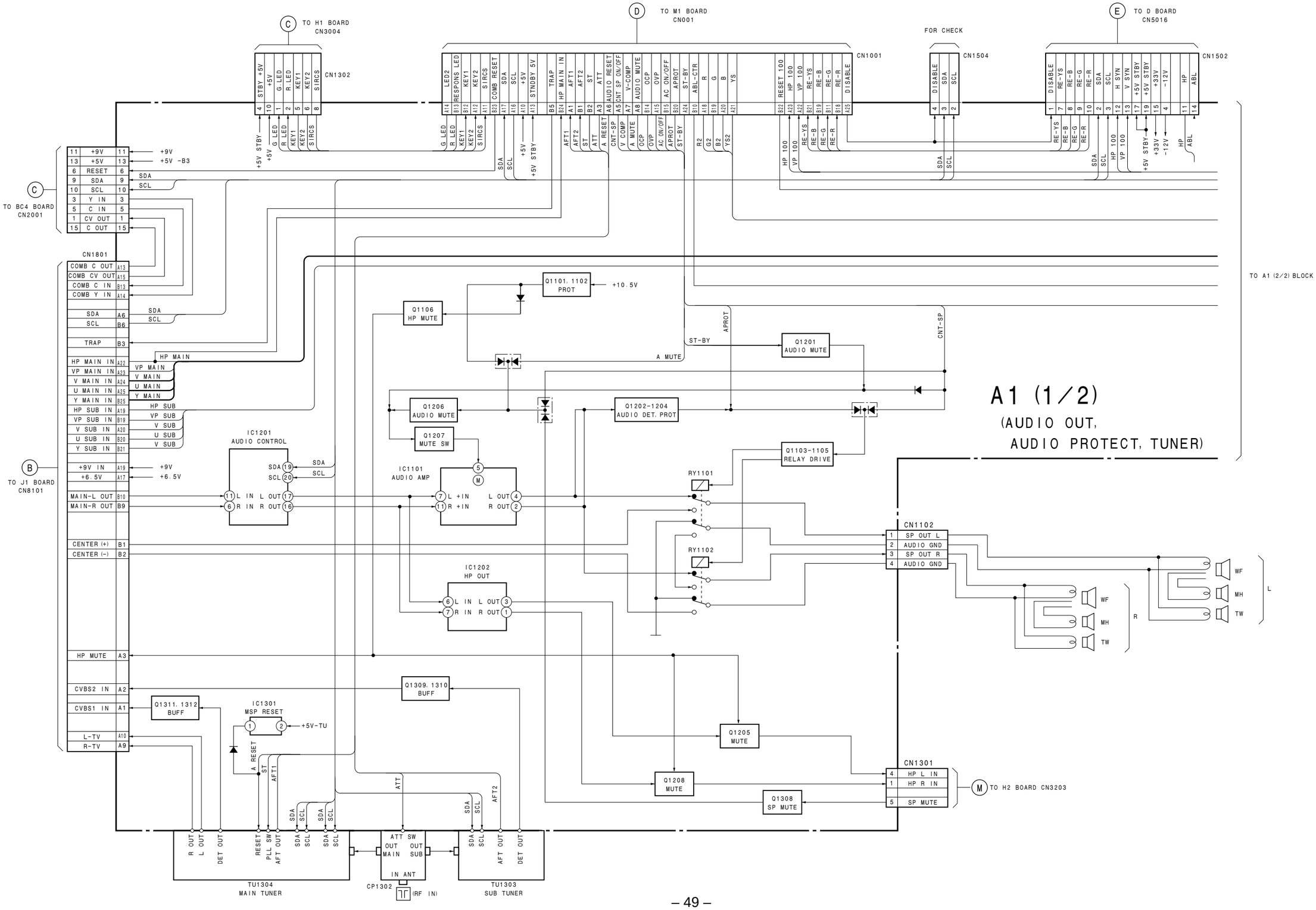


Category : PJE
Item : 29 ERR

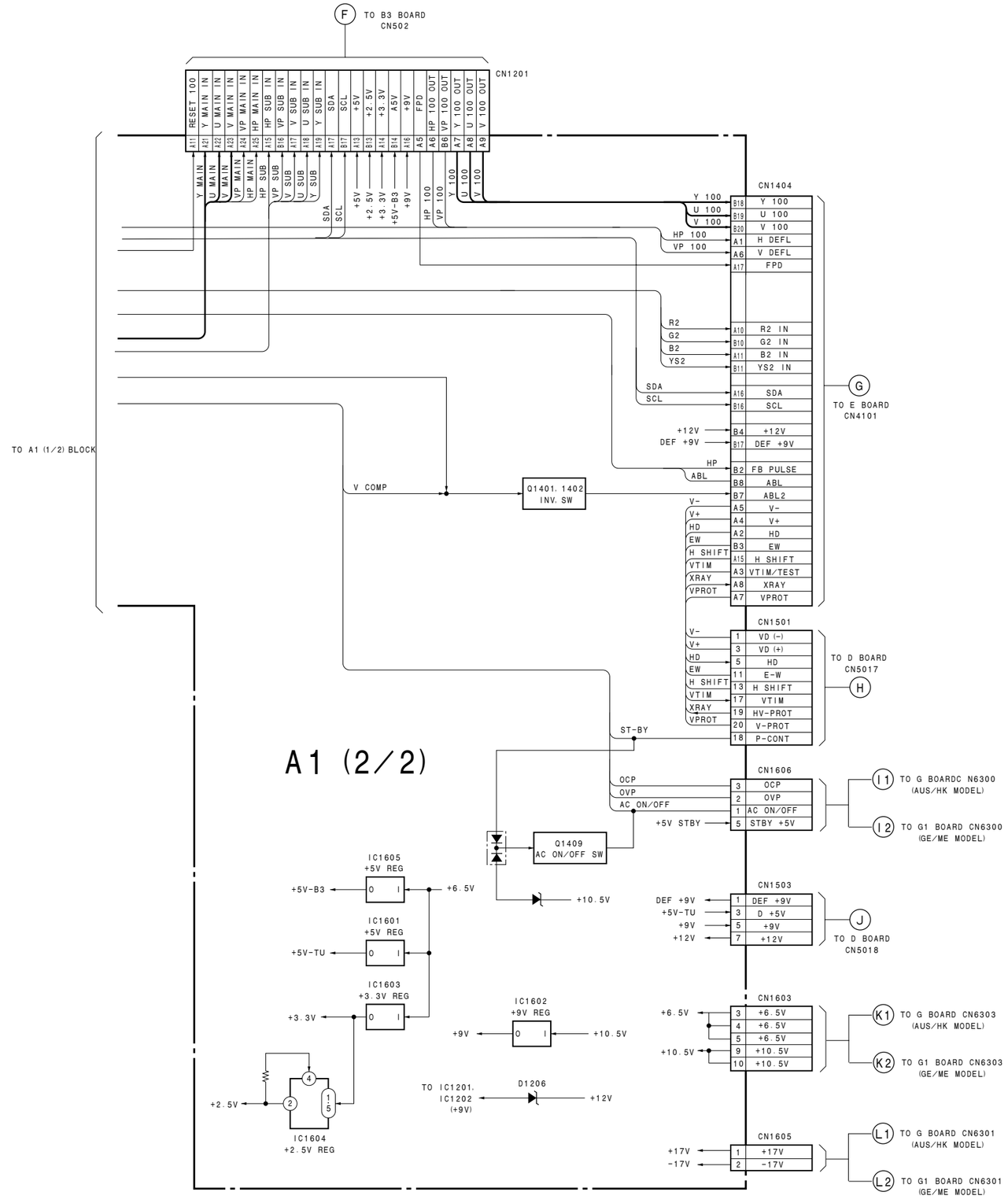
SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM

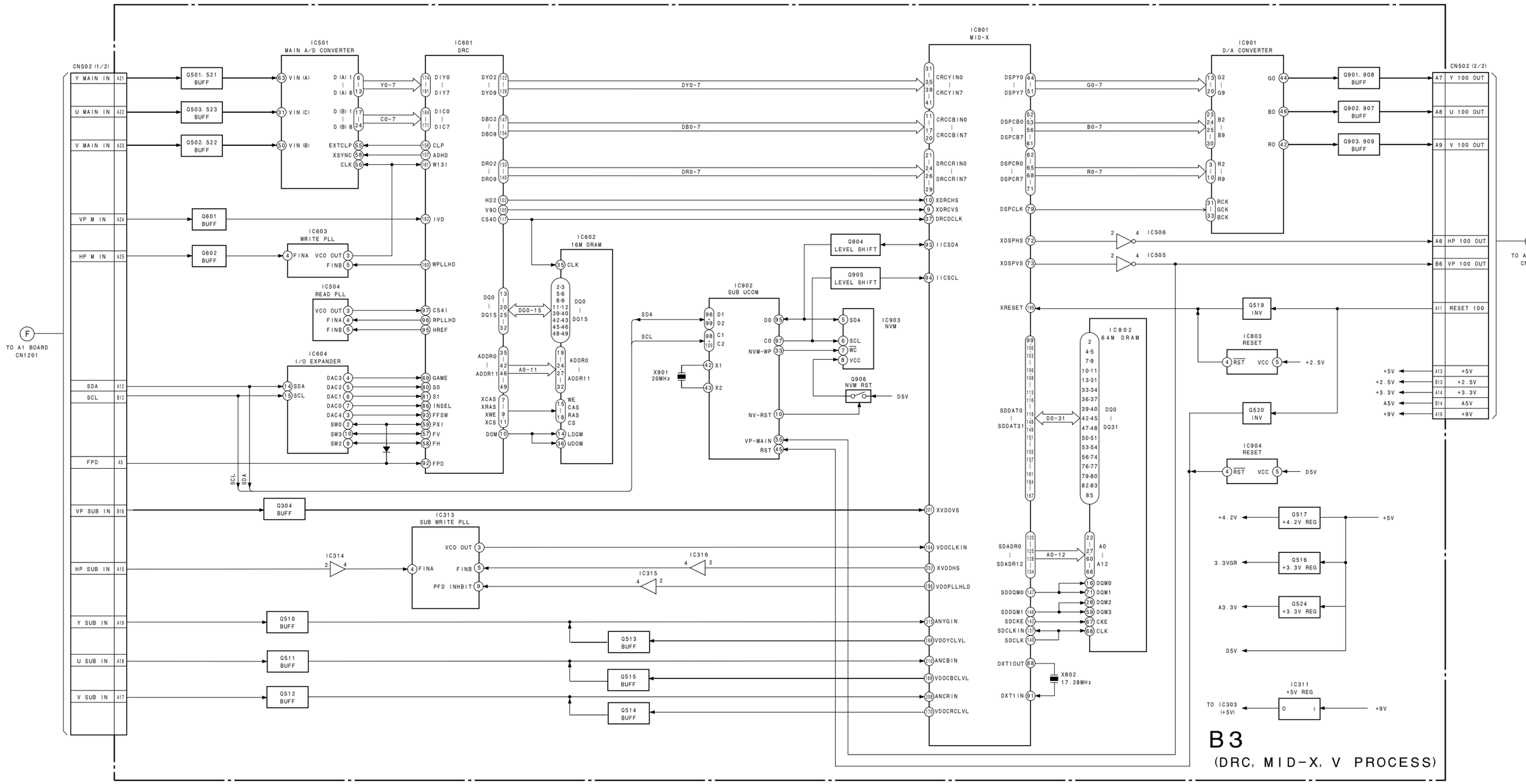
6-1-1. A1(1/2) BOARD BLOCK DIAGRAM



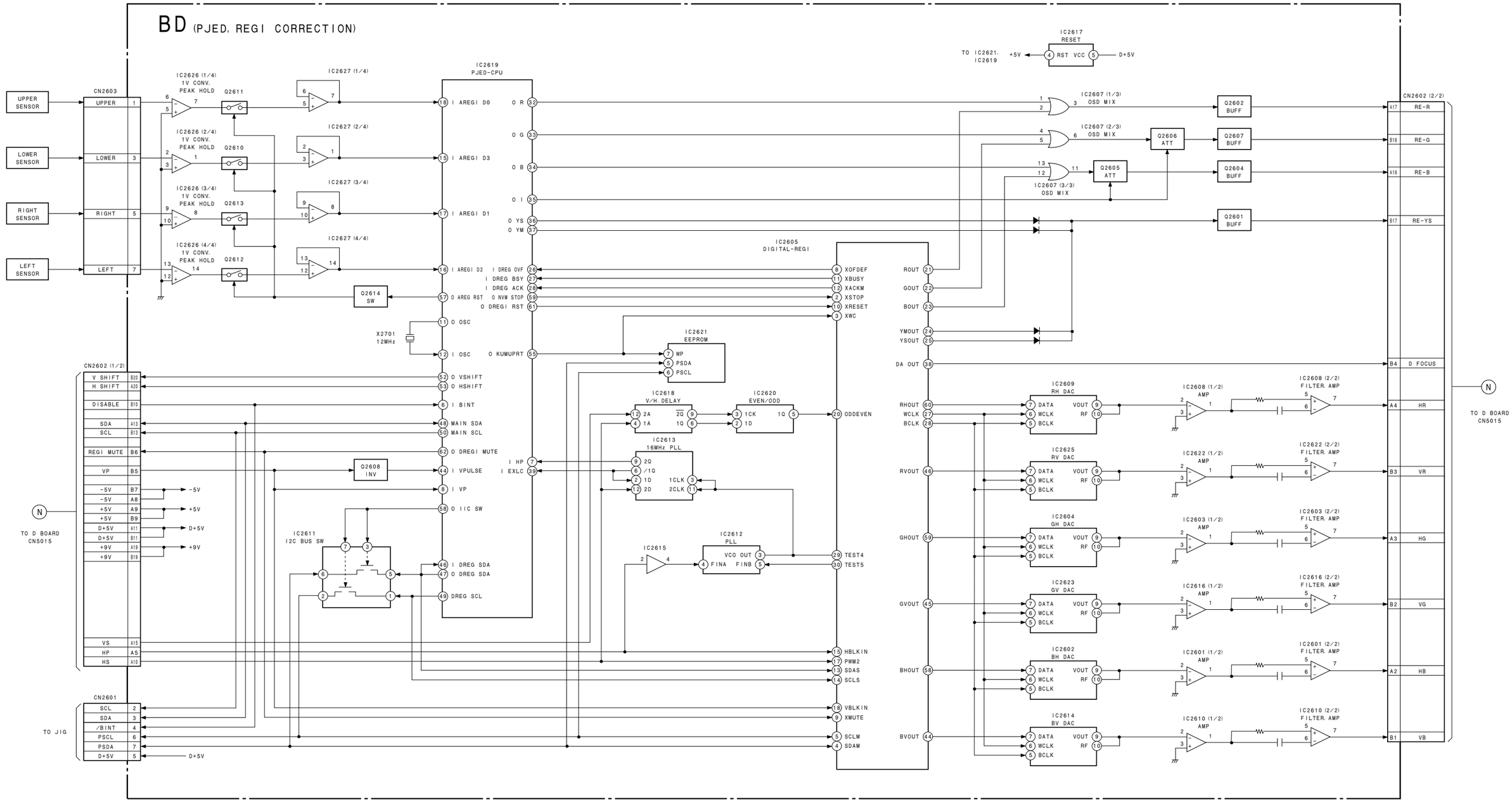
6-1-2. A1(2/2) BOARD BLOCK DIAGRAM



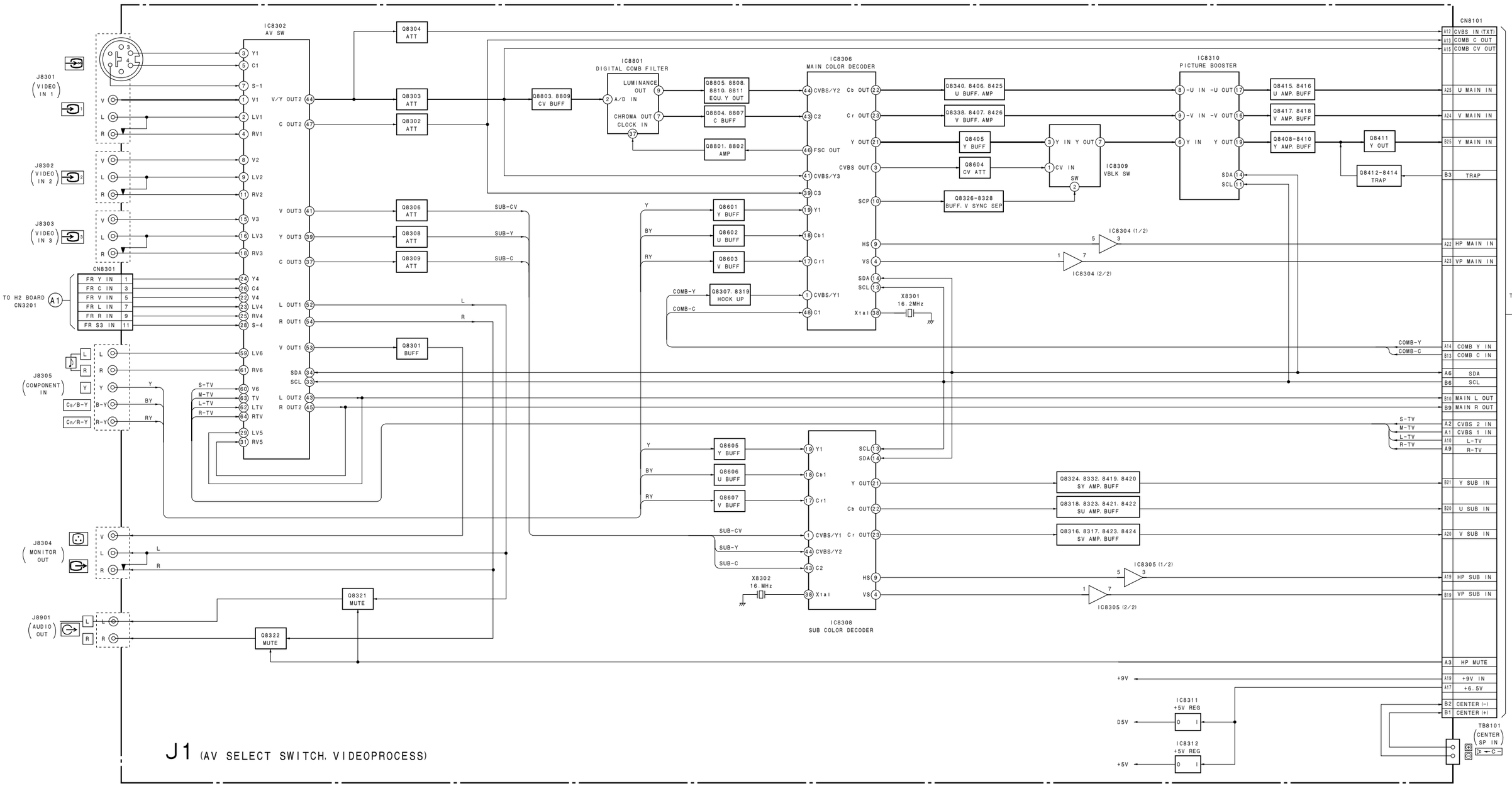
6-1-3. B3 BOARD BLOCK DIAGRAM



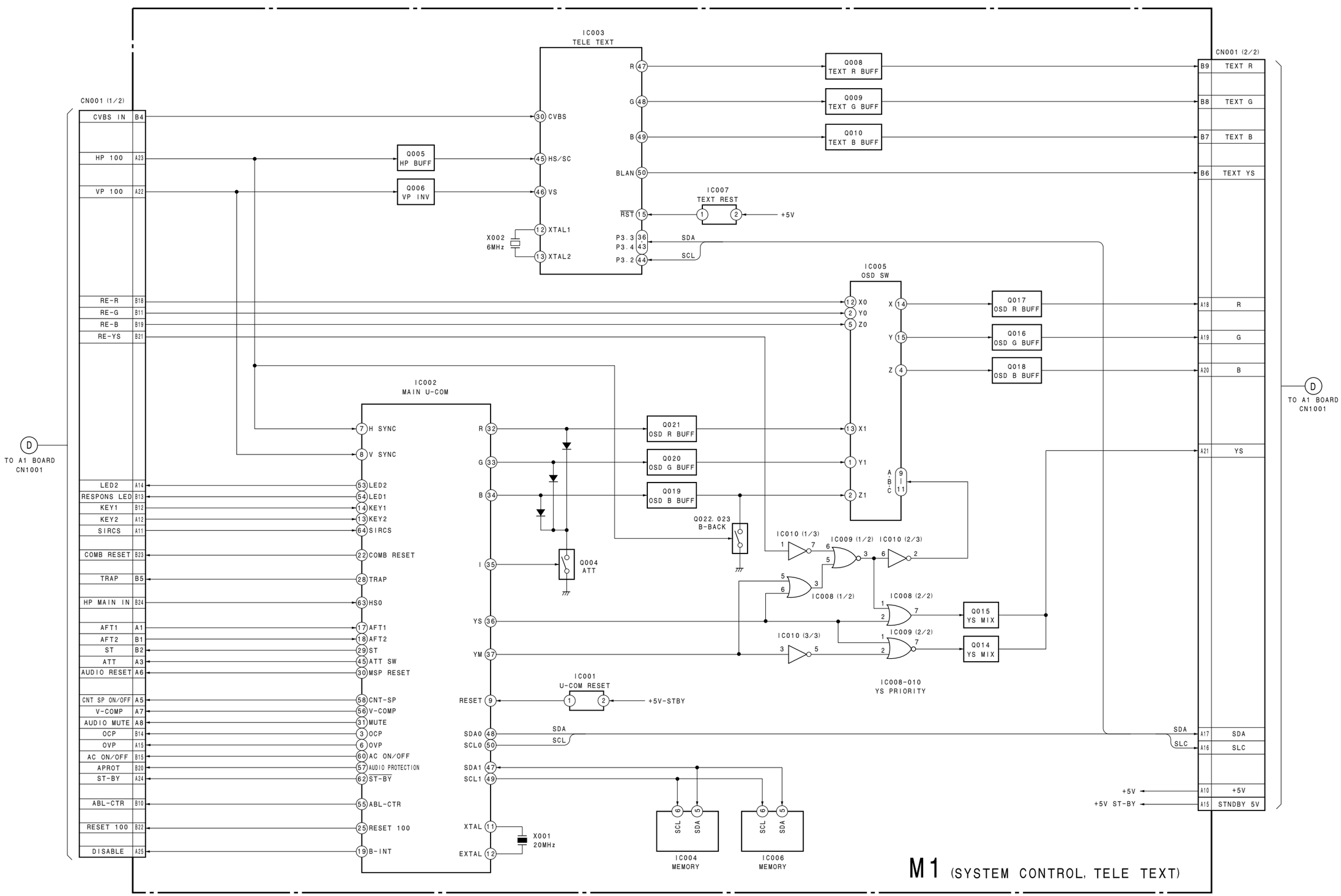
6-1-4. BD BOARD BLOCK DIAGRAMS



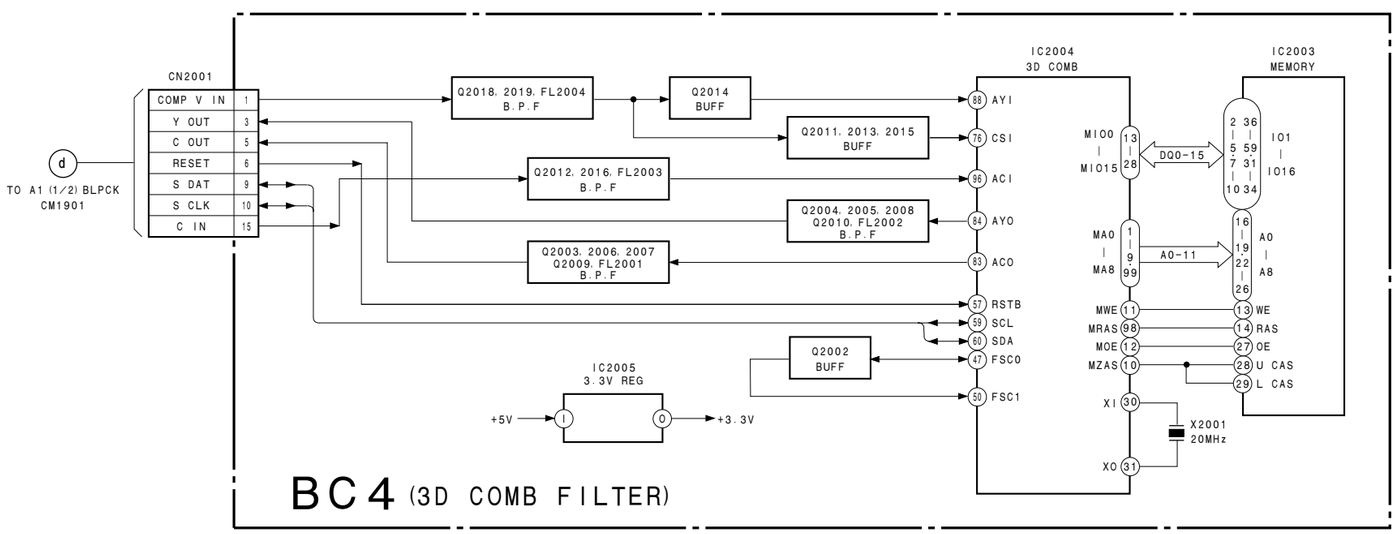
6-1-5. J1 BOARD BLOCK DIAGRAMS

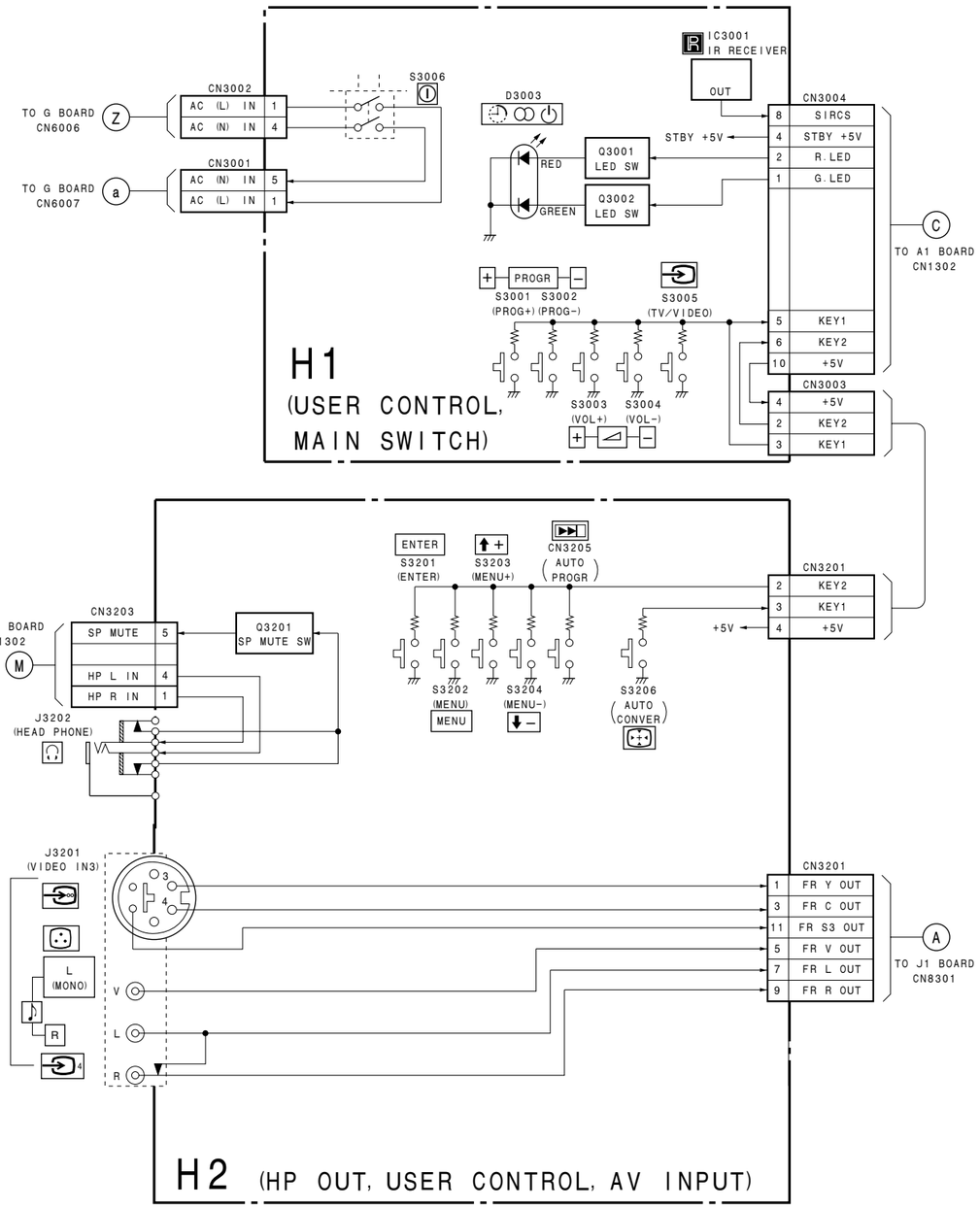


6-1-6. M1 BOARD BLOCK DIAGRAMS

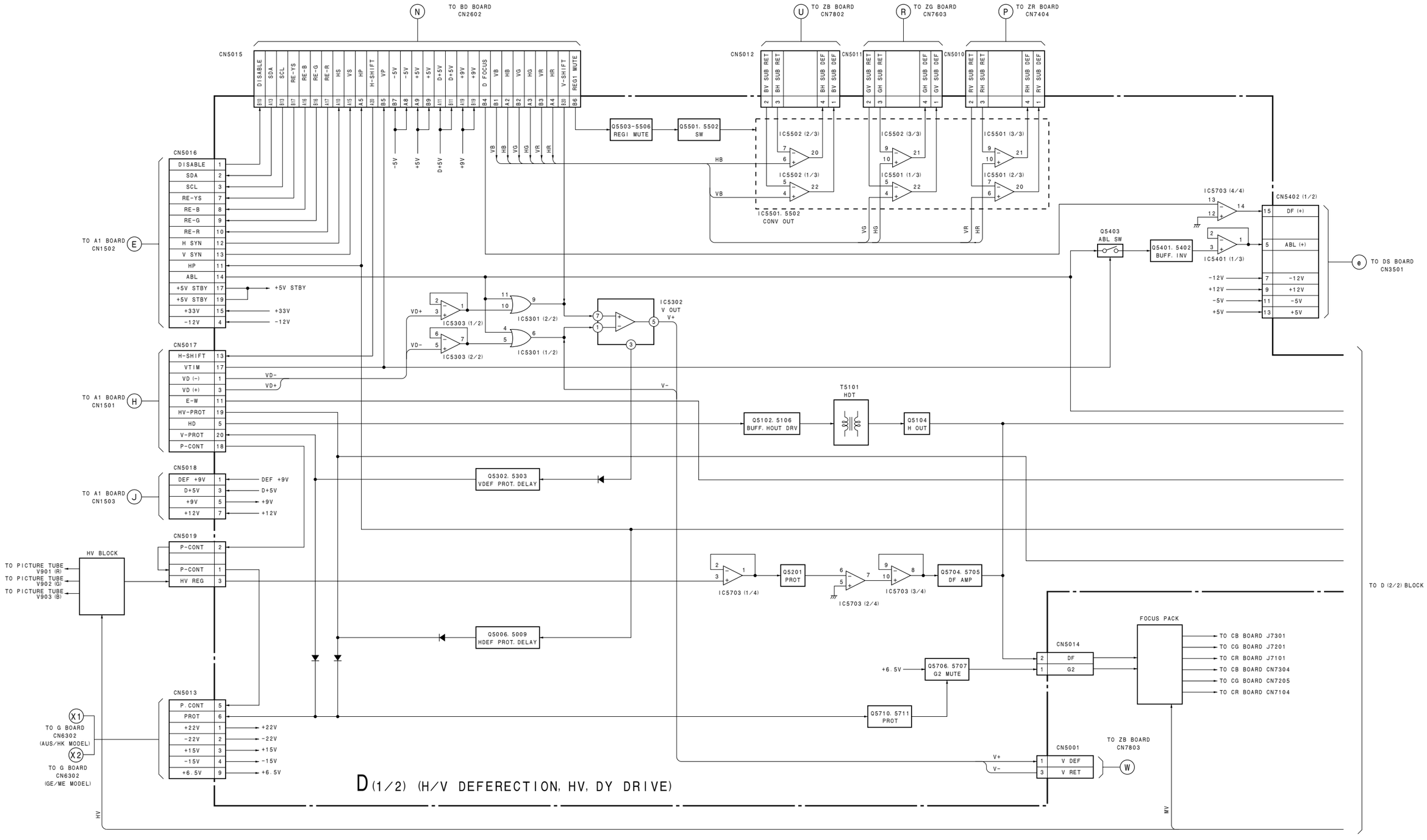


6-1-7. BC4, H1 AND H2 BOARDS BLOCK DIAGRAMS

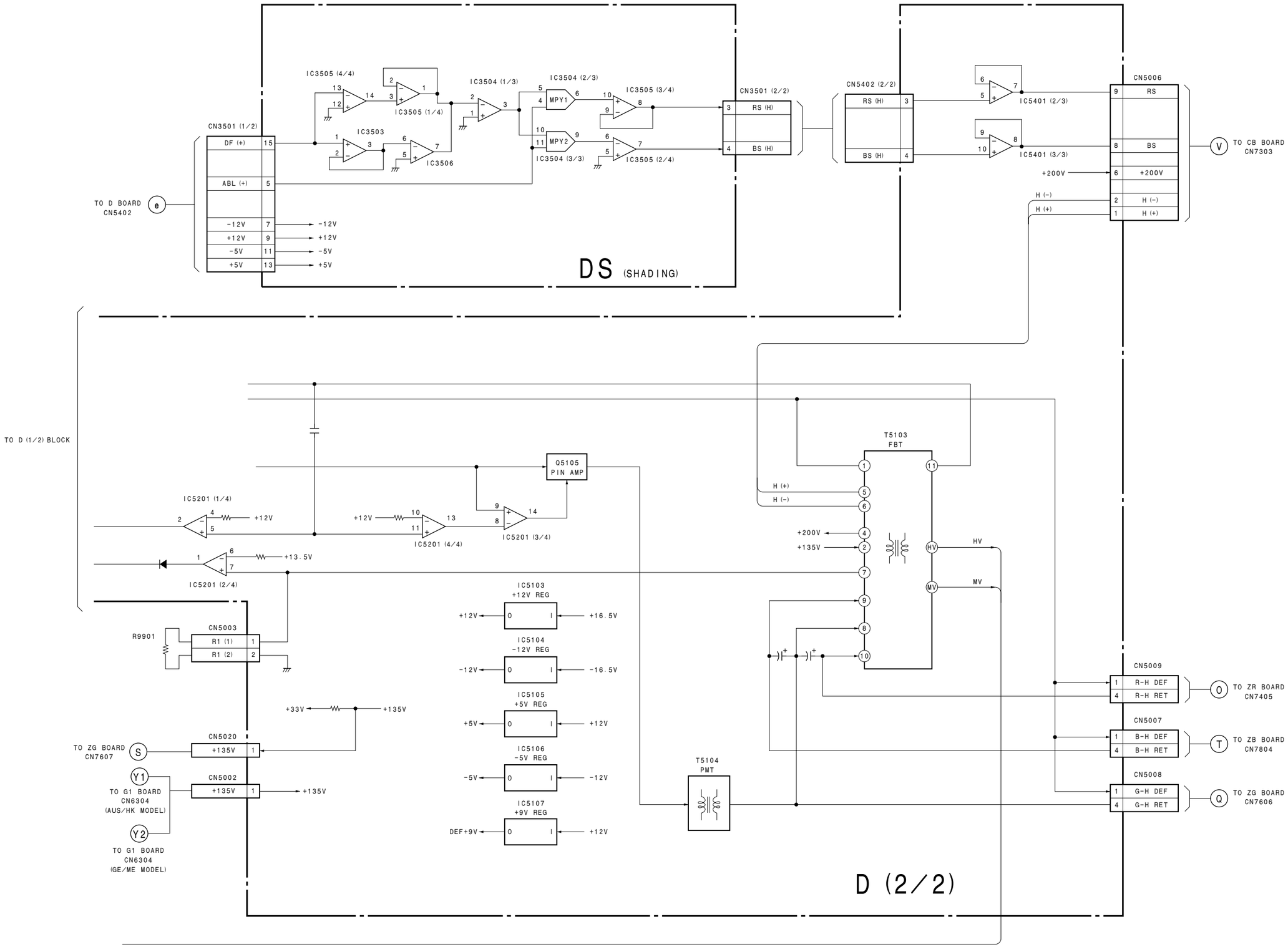




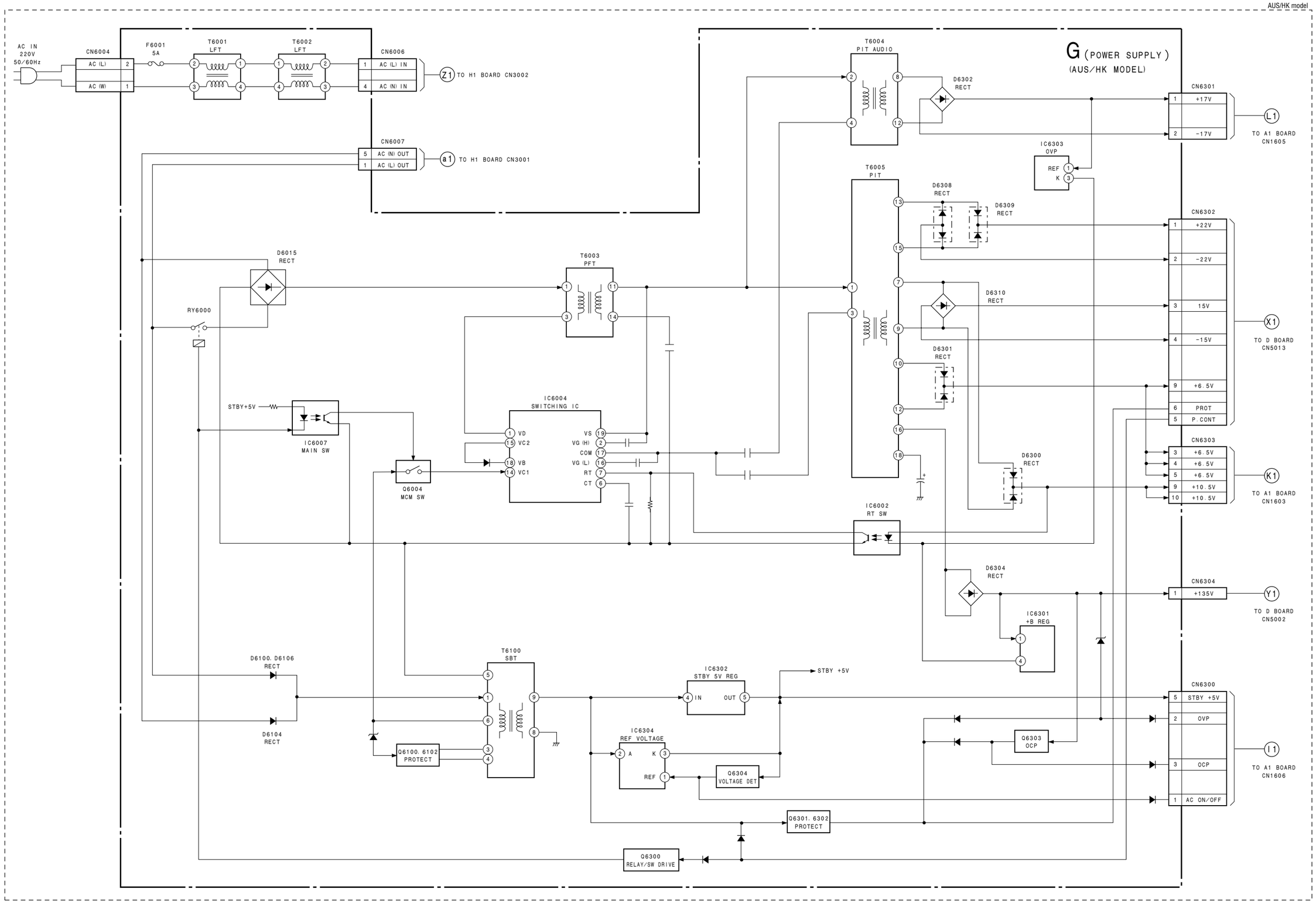
6-1-8. D(1/2) BOARD BLOCK DIAGRAMS



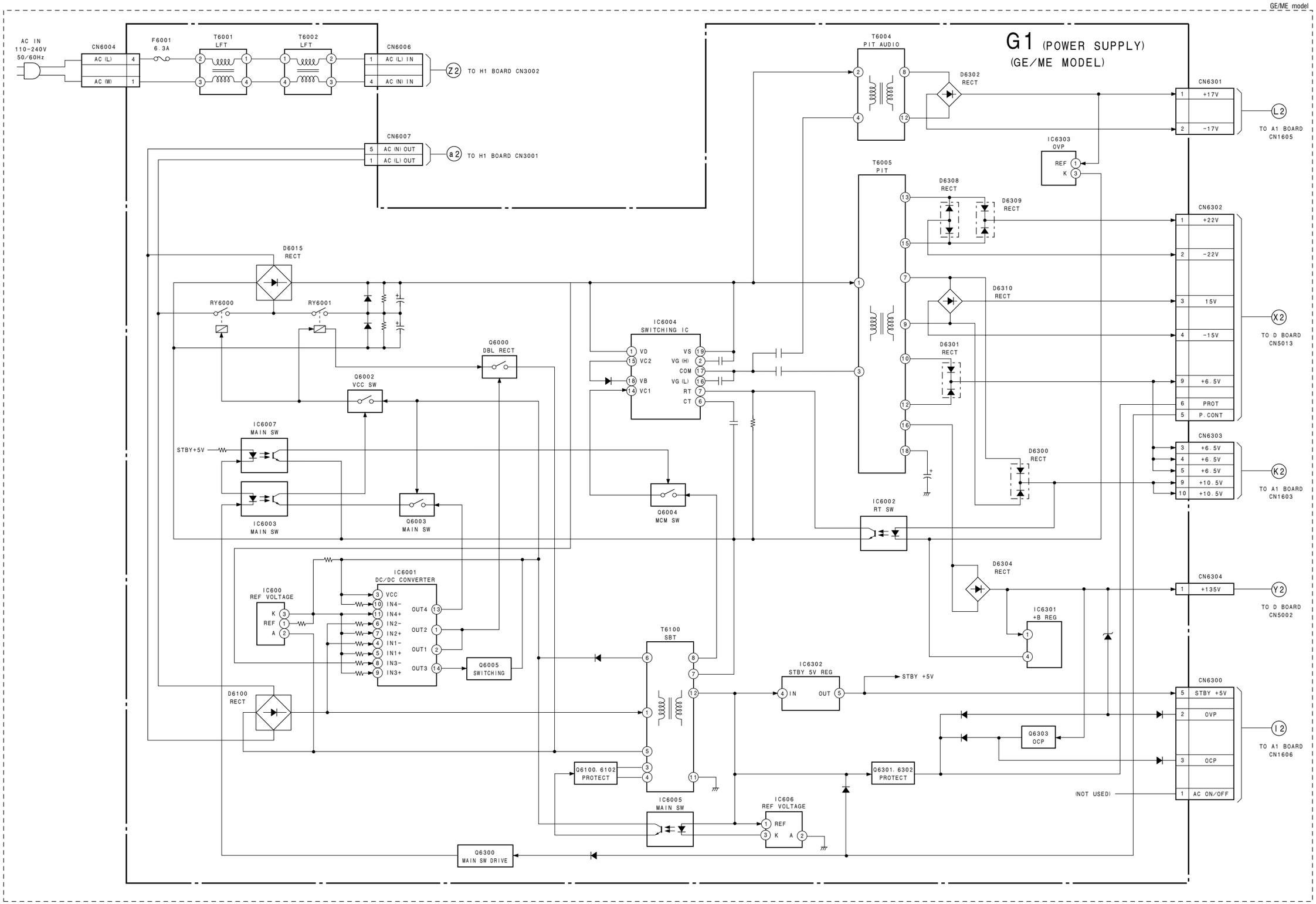
6-1-9. D(2/2) AND DS BOARDS BLOCK DIAGRAMS



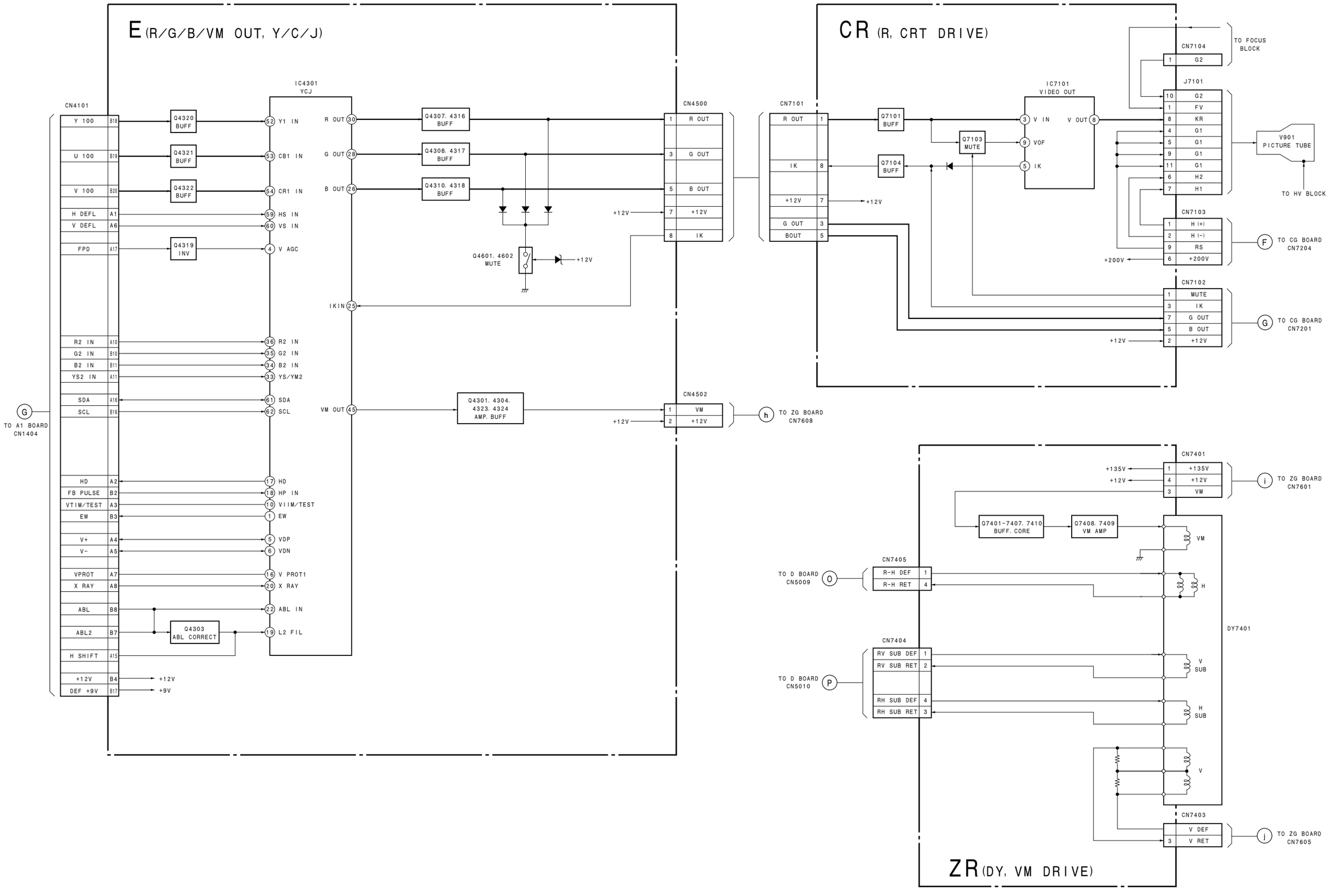
6-1-10. G BOARD BLOCK DIAGRAM



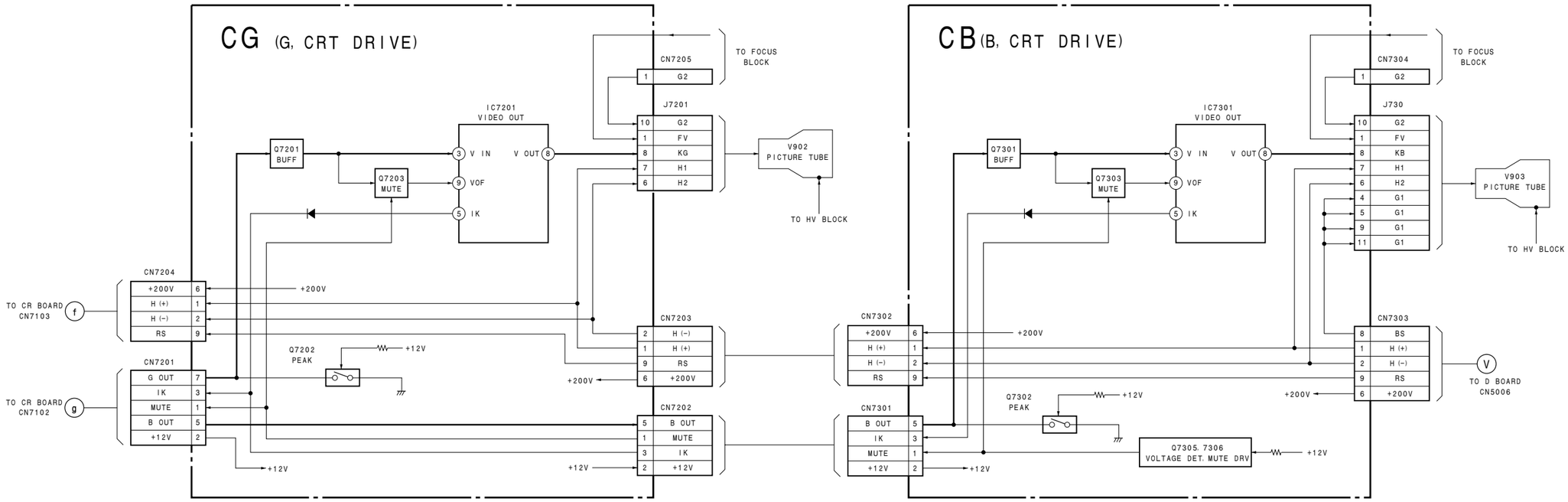
6-1-11. G1 BOARD BLOCK DIAGRAM



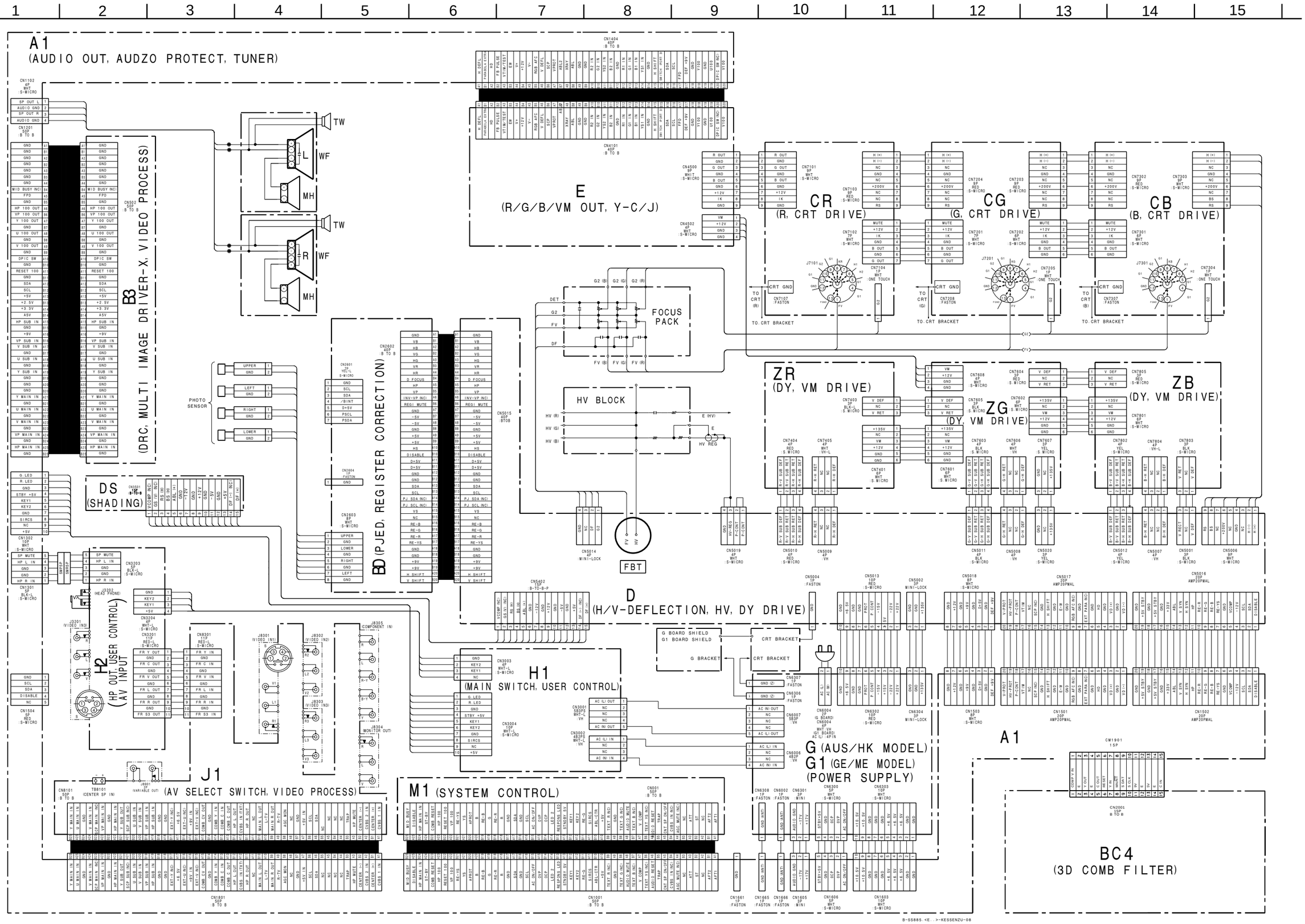
6-1-12. E, CR AND ZR BOARDS BLOCK DIAGRAMS



6-1-13. CG, CB, ZG AND ZB BOARDS BLOCK DIAGRAMS

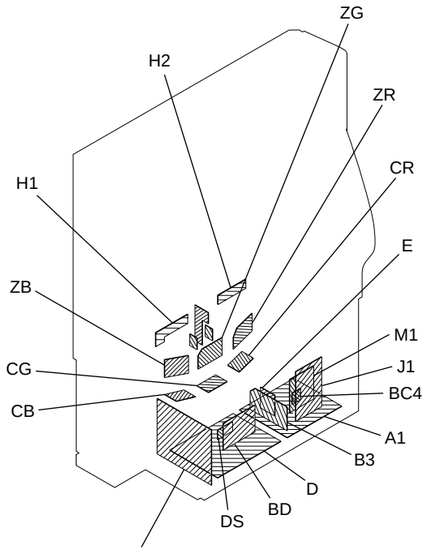


6-2. FRAME SCHEMATIC DIAGRAM



B-SS885-<E>->KESSENZU-08

6-3. CIRCUIT BOARDS LOCATION



G(KP-ER43M31/M90,ER53M31/M90)
G1(KP-ER53M61/M91,ER53M61/M91)

6-4. SCHEMATIC DIAGRAMS

Note:

- All capacitors are in µF unless otherwise noted. (pF: µµF) Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- All voltages are in V.
- Readings are taken with a 10 M digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ∗ : Can not be measured.
- NO MARK: Common
- < > : SECAM
- ( ) : NTSC 3.58 MHz
- Circled numbers are waveform references.
- : B + bus.
- : B – bus.
- : Signal path.

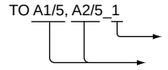
Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- Divided circuit diagram

  Schematic diagrams of A, D, and E boards are divided into serveral pieces. Information to where the line is to be connected is printed at the end of wach line.
  For example, [TO A1/5, A2/5_1] means the line is connected to Ref. No. 1 of A(1/5) and A(2/5) schematic diagrams.
  TO A1/5, A2/5_1



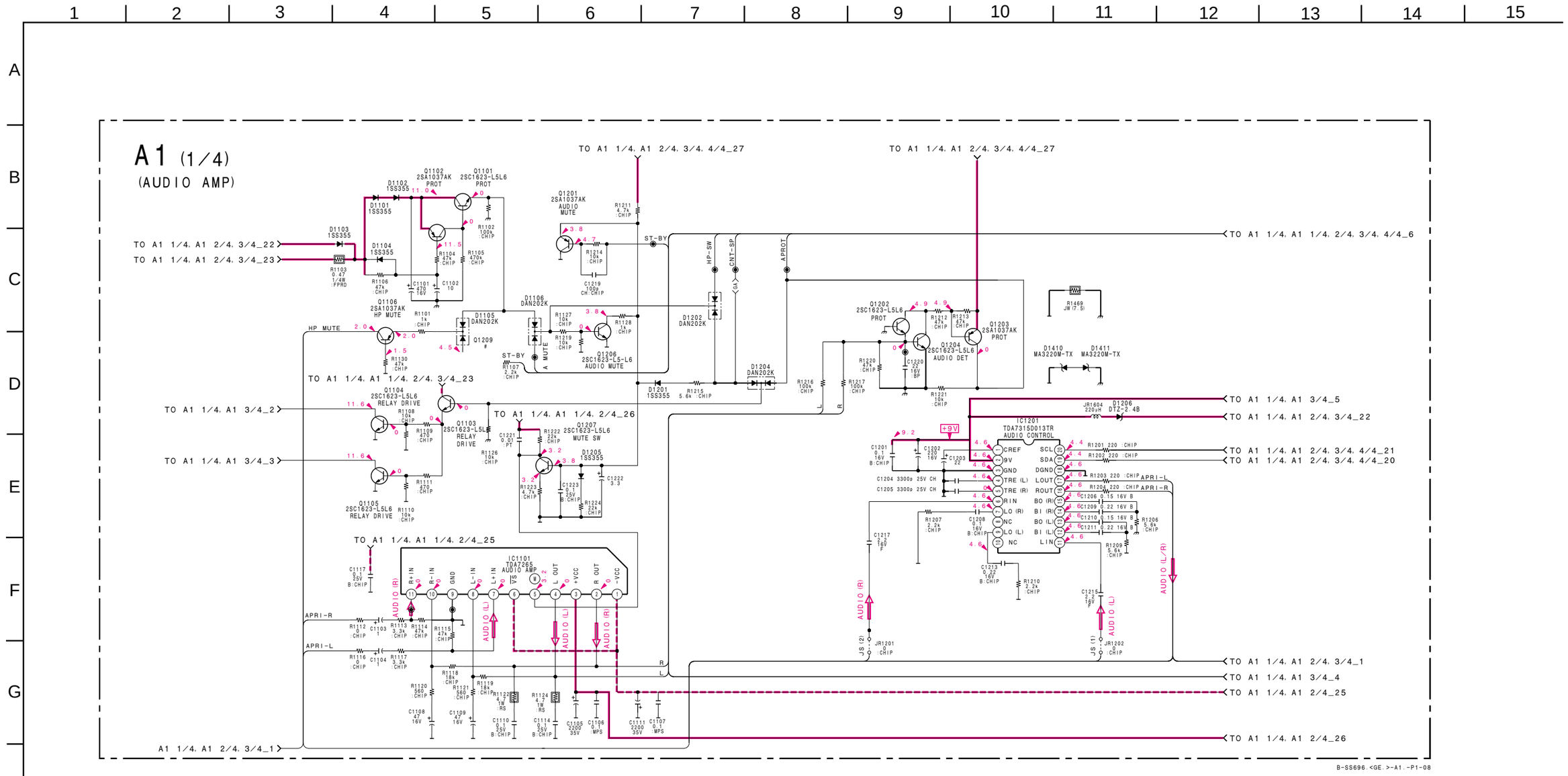
Terminal name of semiconductors in silk screen printed circuit (∗)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor	T	Collector / Base Emitter	
②	Transistor	—	Collector / Base Emitter	
③	Diode		Cathode — Anode	
④	Diode	T	Cathode / Anode (NC)	
⑤	Diode	—	Cathode / Anode (NC)	
⑥	Diode	T	Common / Anode Cathode	
⑦	Diode	—	Common / Anode Cathode	
⑧	Diode	T	Common / Anode Anode	
⑨	Diode	—	Common / Anode Anode	
⑩	Diode	T	Common / Cathode Cathode	
⑪	Diode	—	Common / Cathode Cathode	
⑫	Diode	|	Anode Anode Cathode / Cathode Anode Anode	
⑬	Transistor (FET)	|	Drain Source Gate	
⑭	Transistor (FET)	⊢	Drain Source Gate	
⑮	Transistor (FET)	|	Source Drain Gate	
⑯	Transistor	|	Emitter Collector Base	
–	Discrete semiconductot			

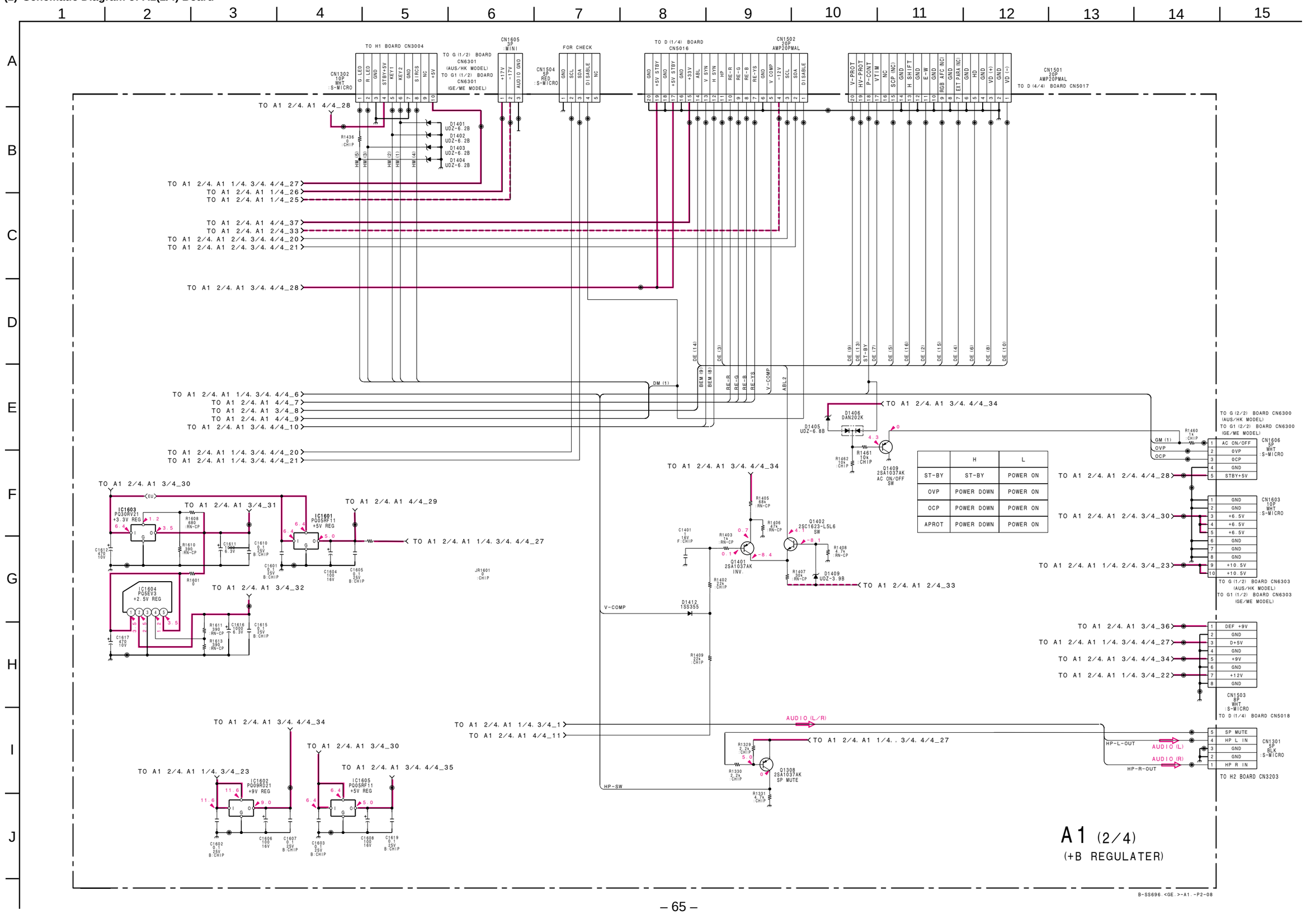
(Chip semiconductors that are not actually used are included.)

Ver.1.6

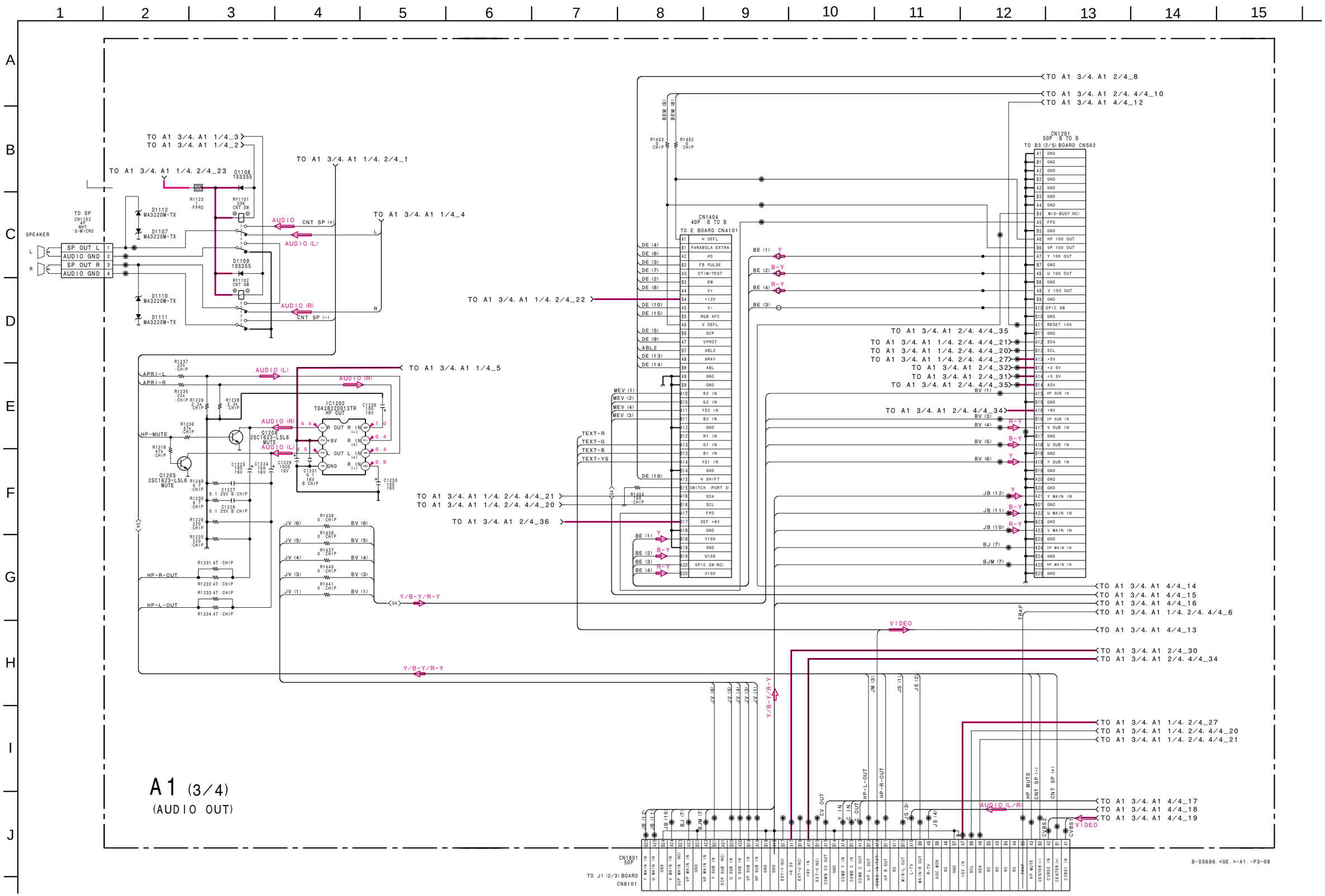
(1) Schematic Diagram of A1(1/4) Board



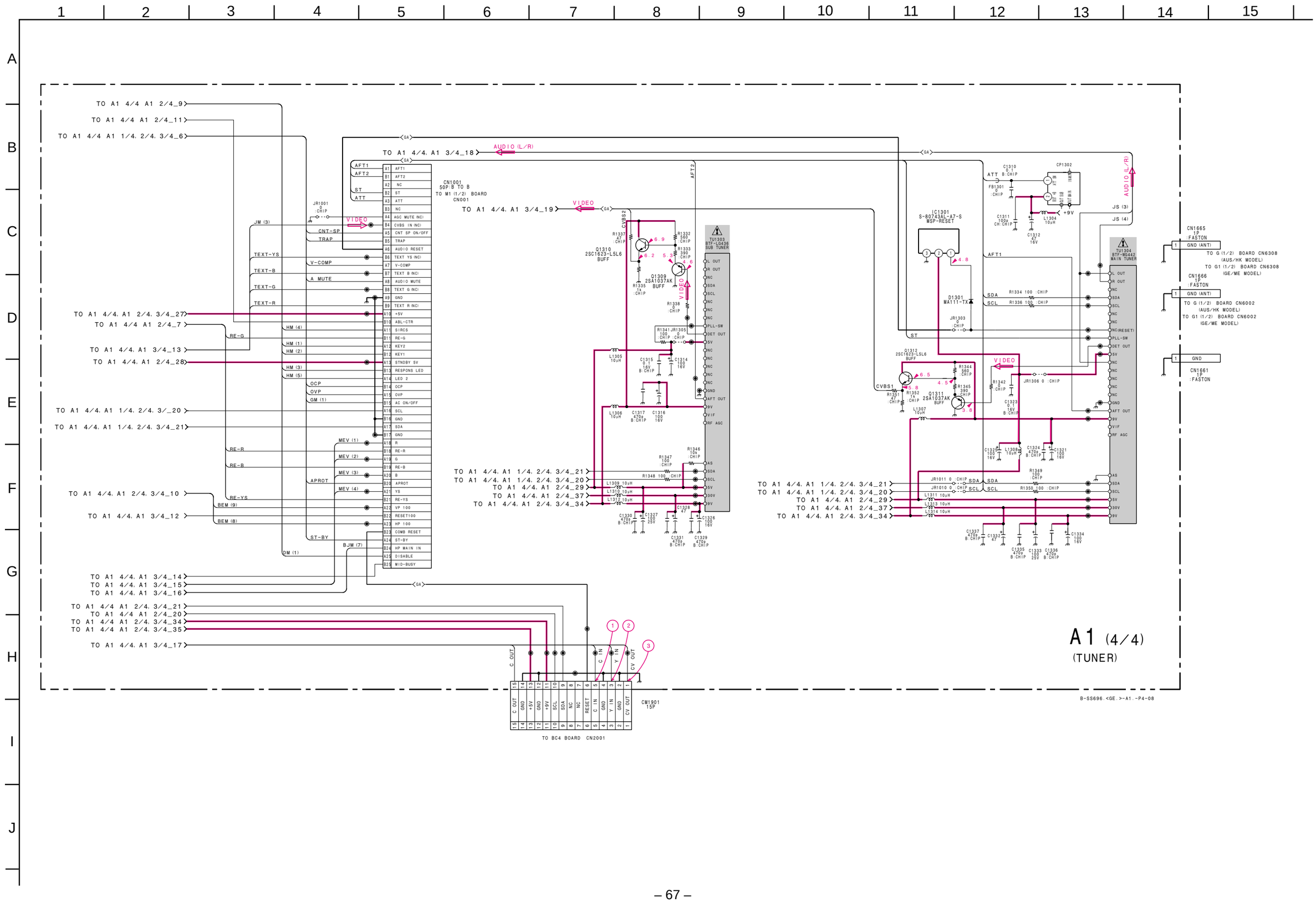
(2) Schematic Diagram of A1(2/4) Board



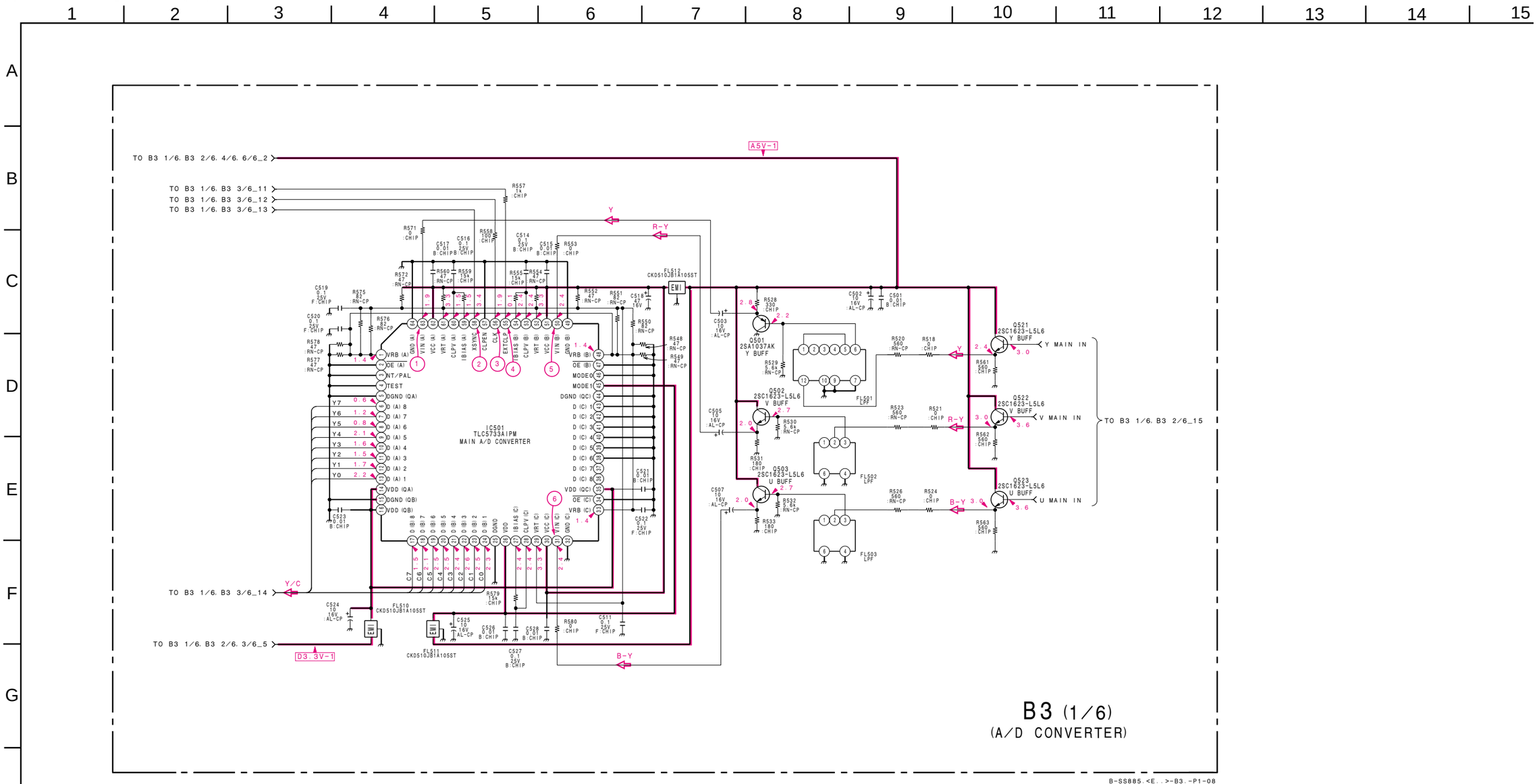
(3) Schematic Diagram of A1(3/4) Board



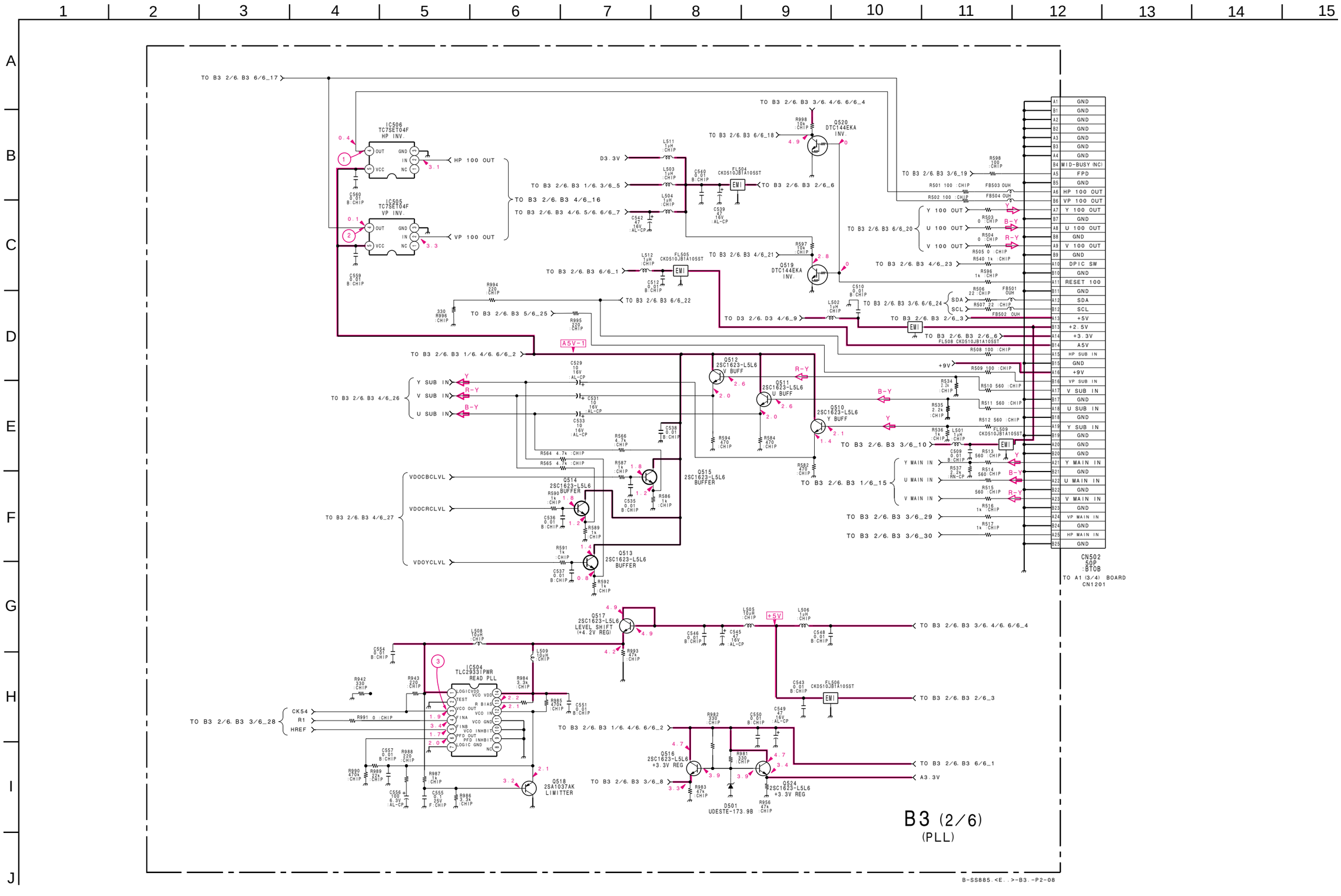
(4) Schematic Diagram of A1(4/4) Board



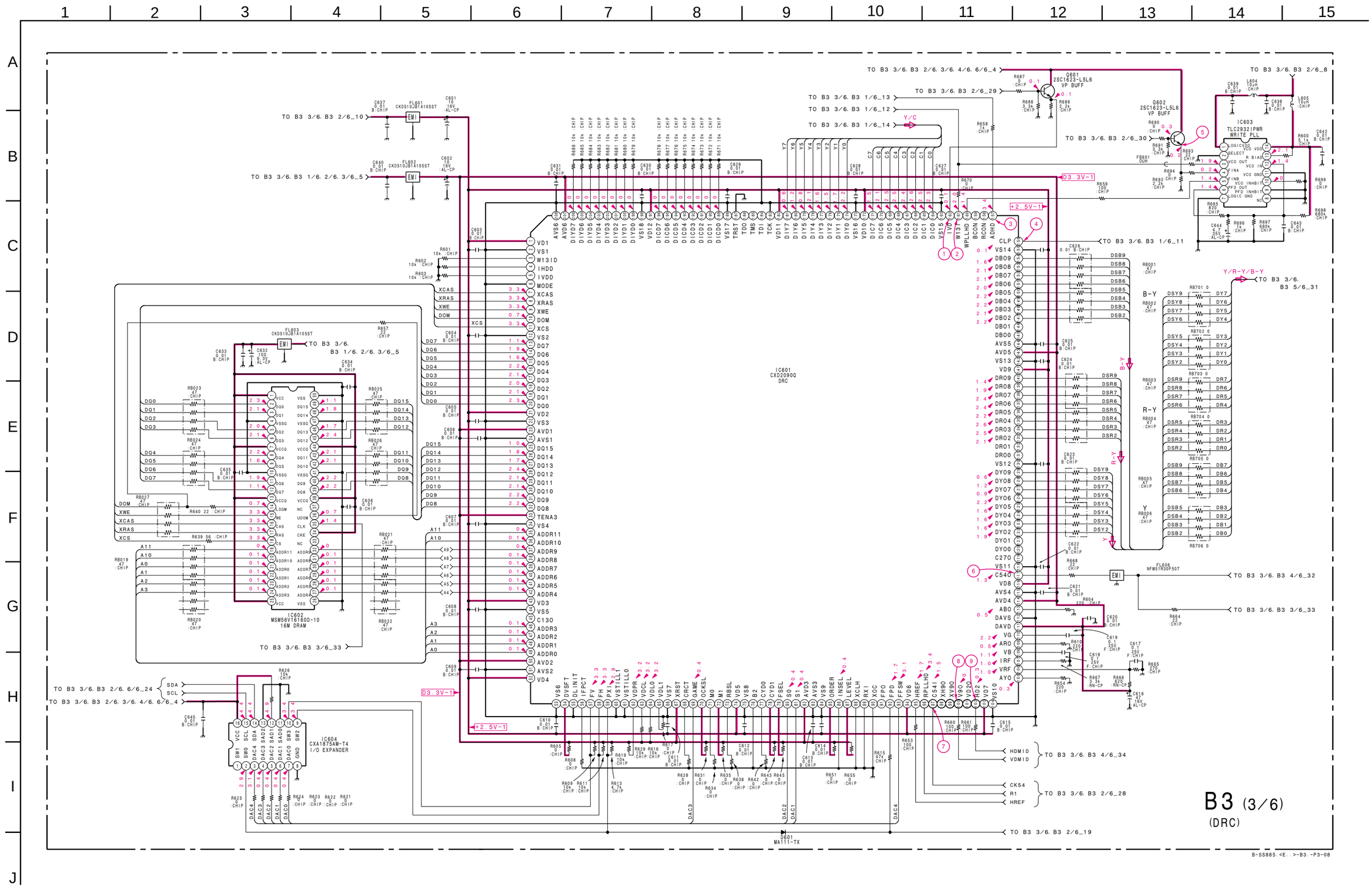
(5) Schematic Diagram of B3(1/6) Board



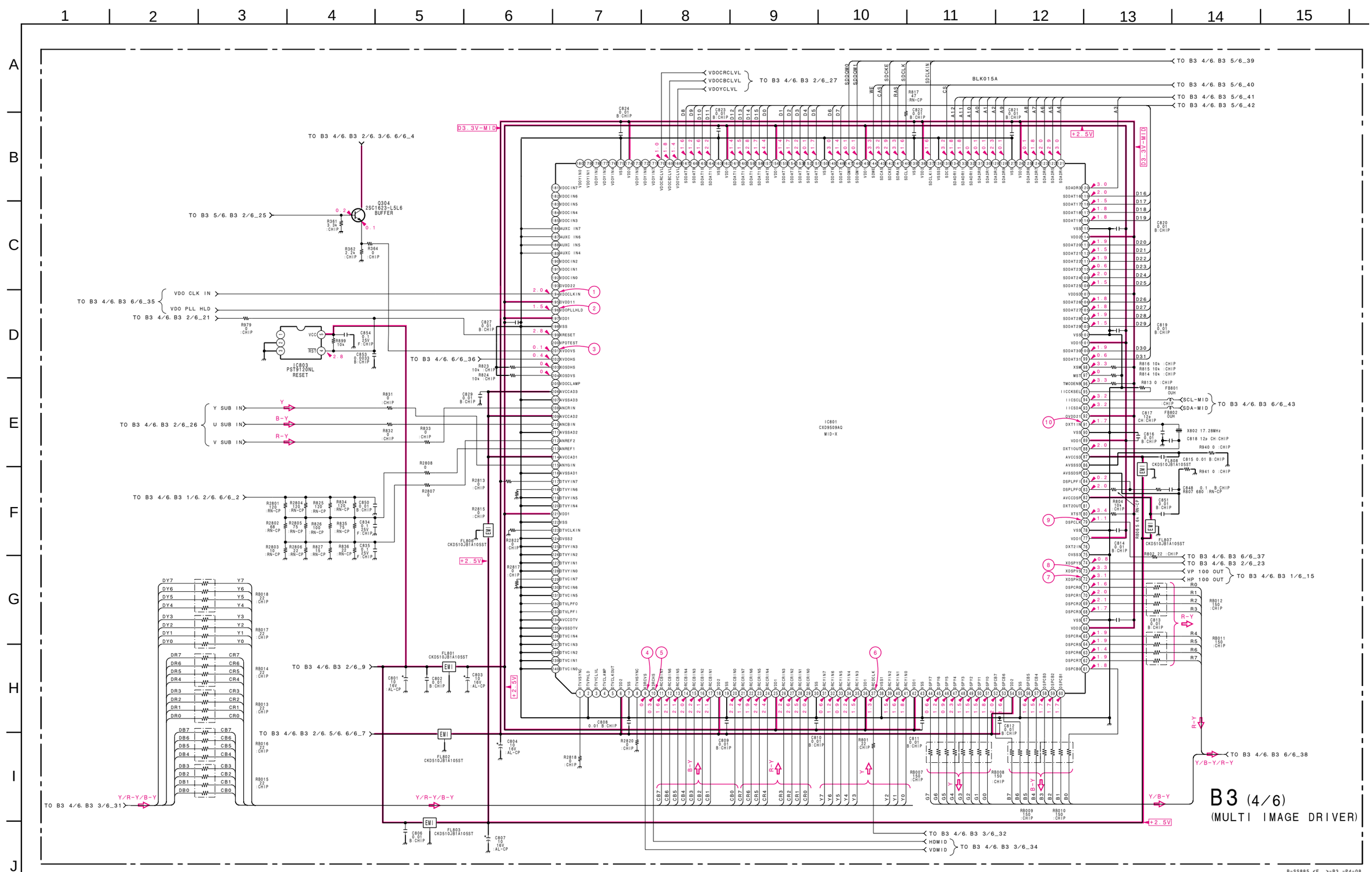
(6) Schematic Diagram of B3(2/6) Board



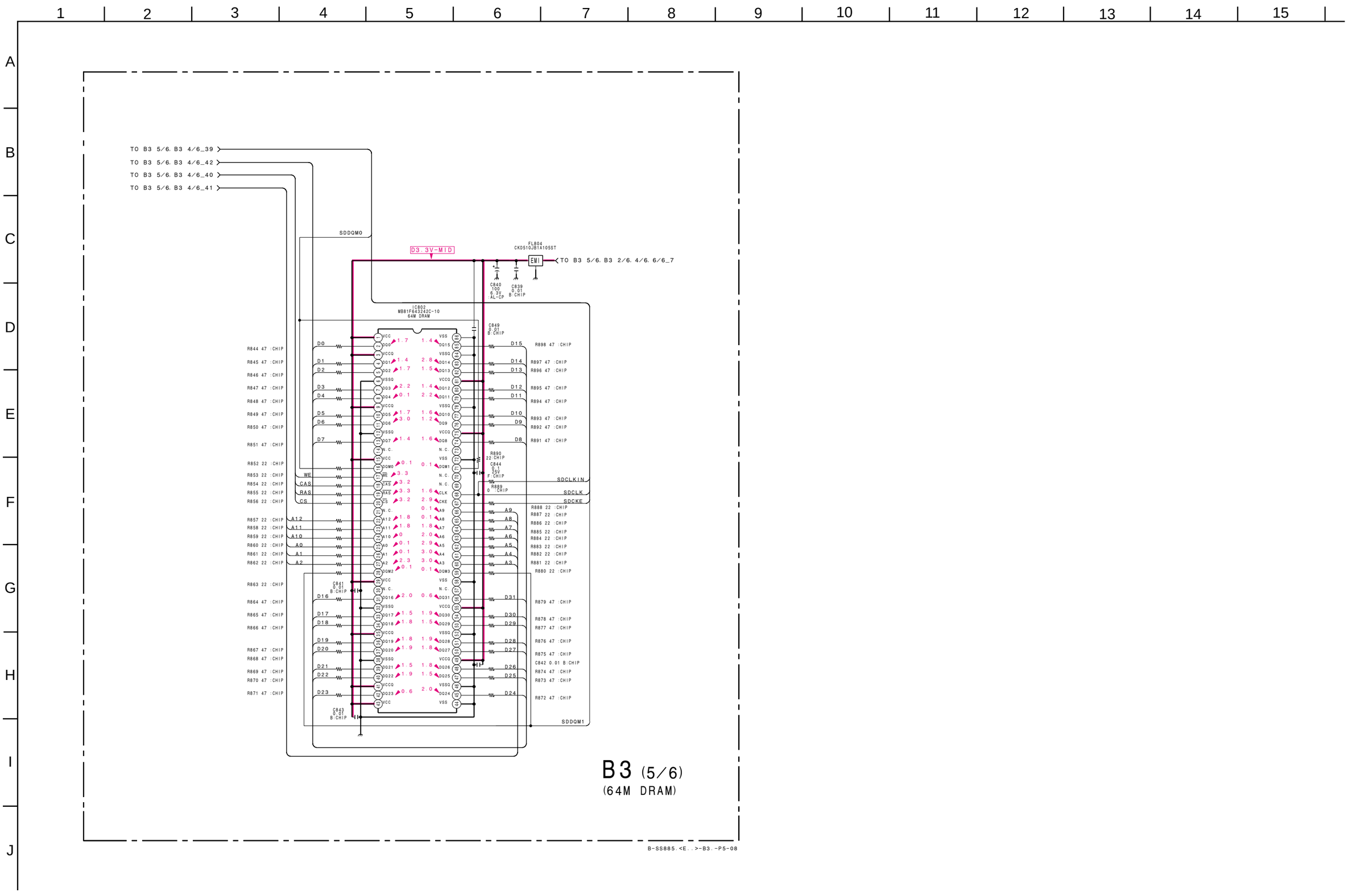
(7) Schematic Diagram of B3(36) Board



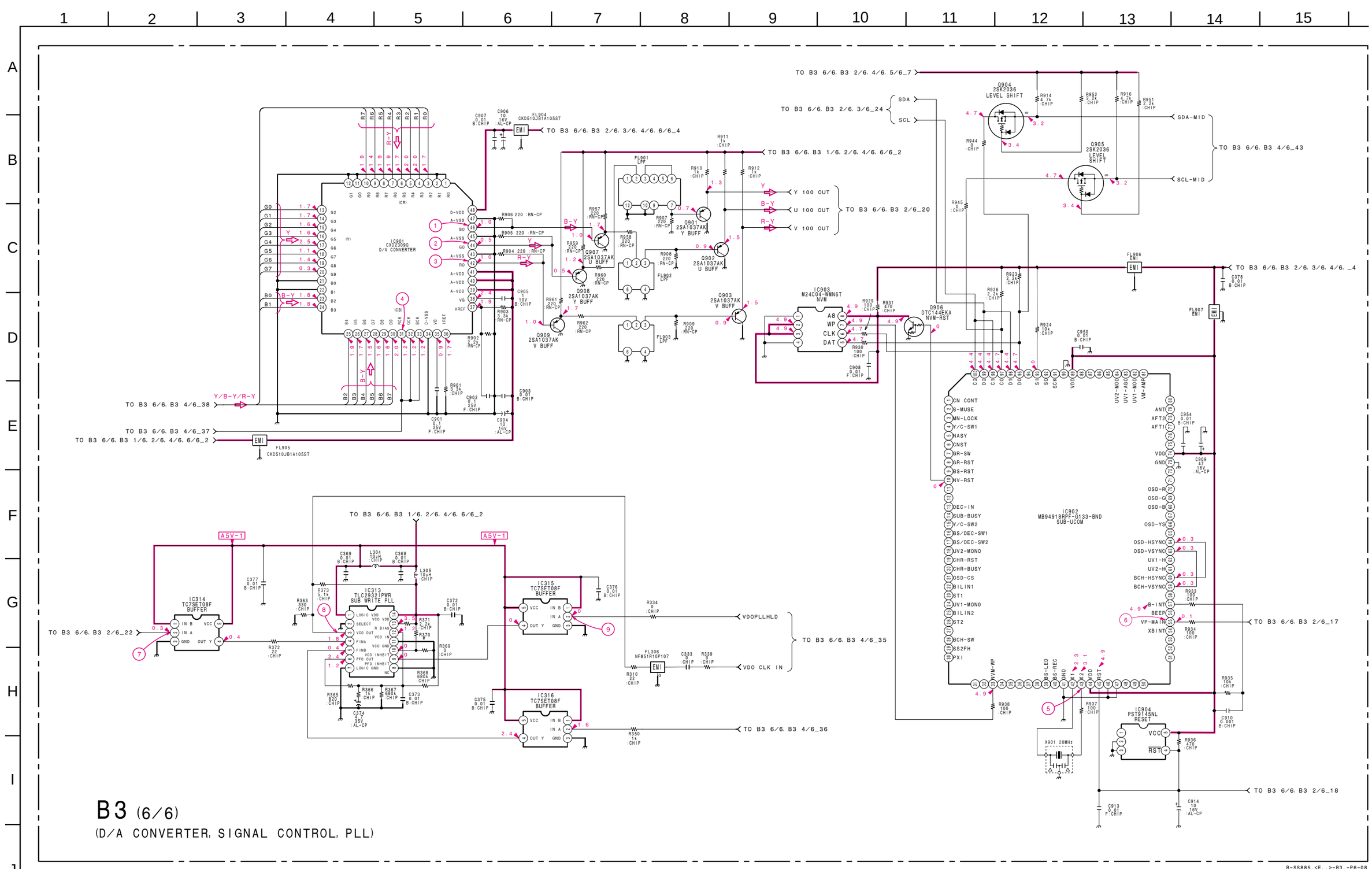
(8) Schematic Diagram of B3 (4/6) Board



(9) Schematic Diagram of B3 (5/6) Board



(10) Schematic Diagram of B3 (6/6) Board



B3 (6/6)

(D/A CONVERTER, SIGNAL CONTROL, PLL)

B-SS885.<E..>-B3.-P6-08

(11) Schematic Diagram of BC4 Board

BC4
(3D COMB FILTER)

IC2003
IS41C16256-35K
FRAME MEMORY

IC2004
μPD64082
3D COMB/HH DEC

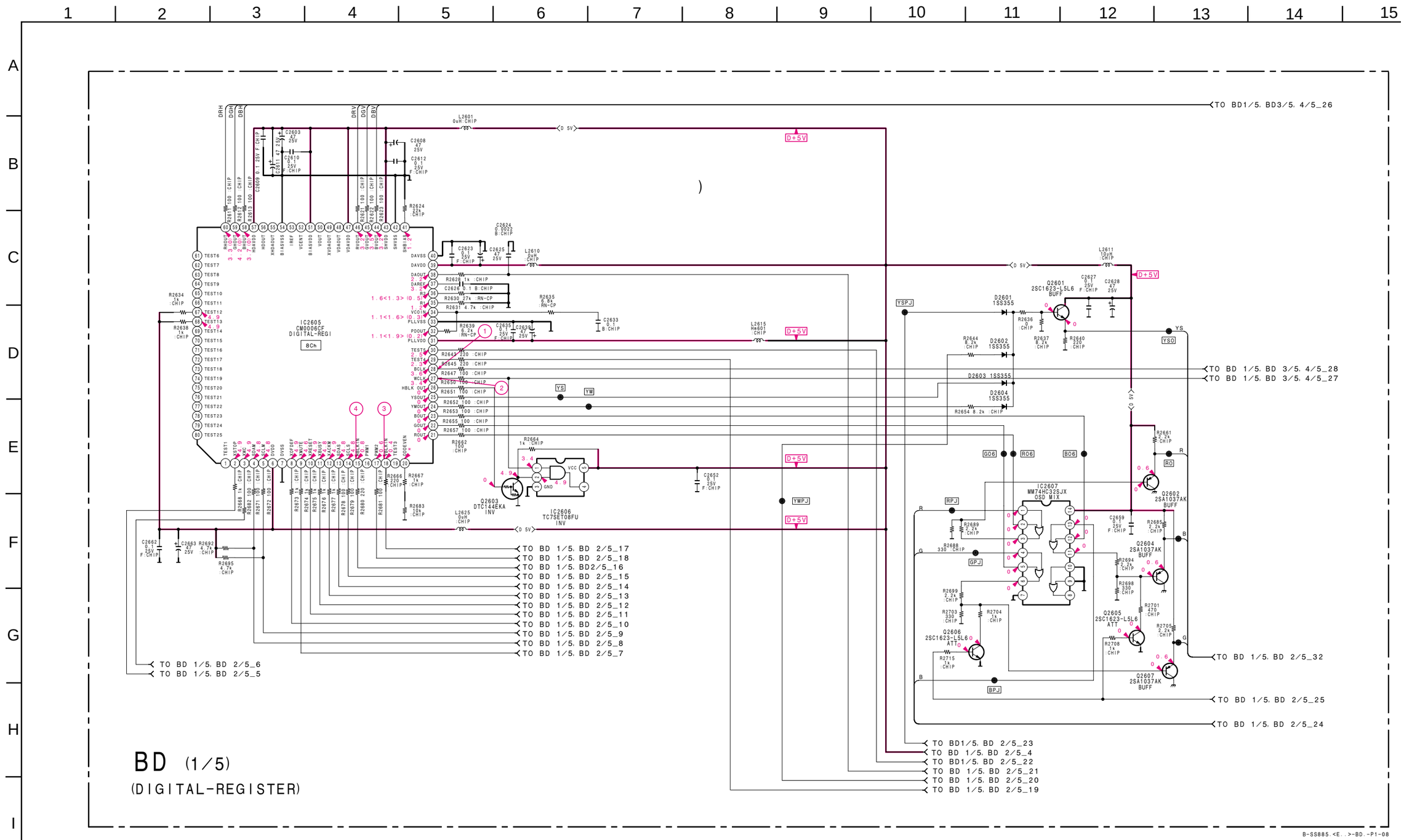
IC2005
PQ3T253U
3.3VREG

CN2001
15P
B TO B

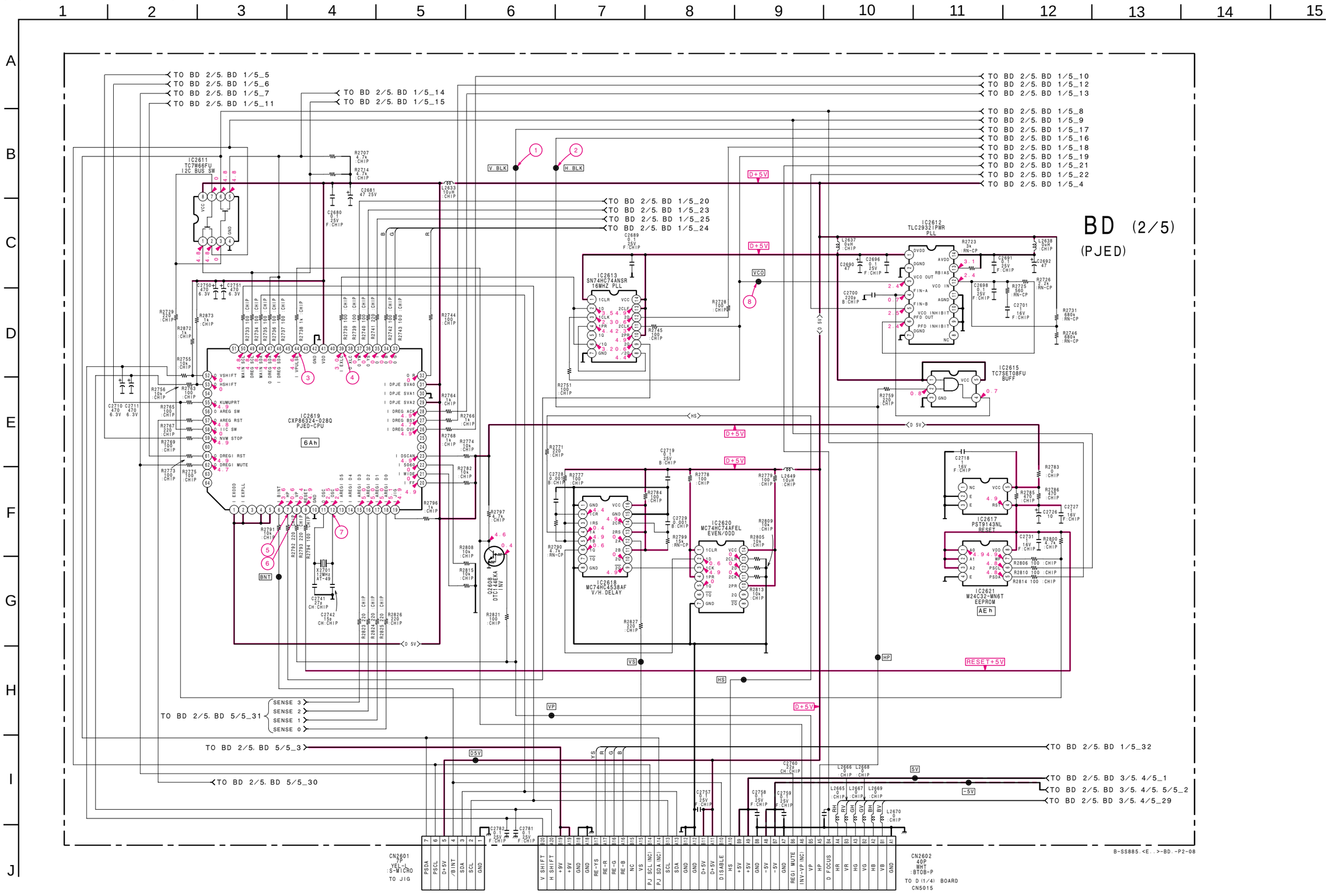
TO A1 (4/4) BOARD
CM1901

B-SS885.<E..>-BC4-08

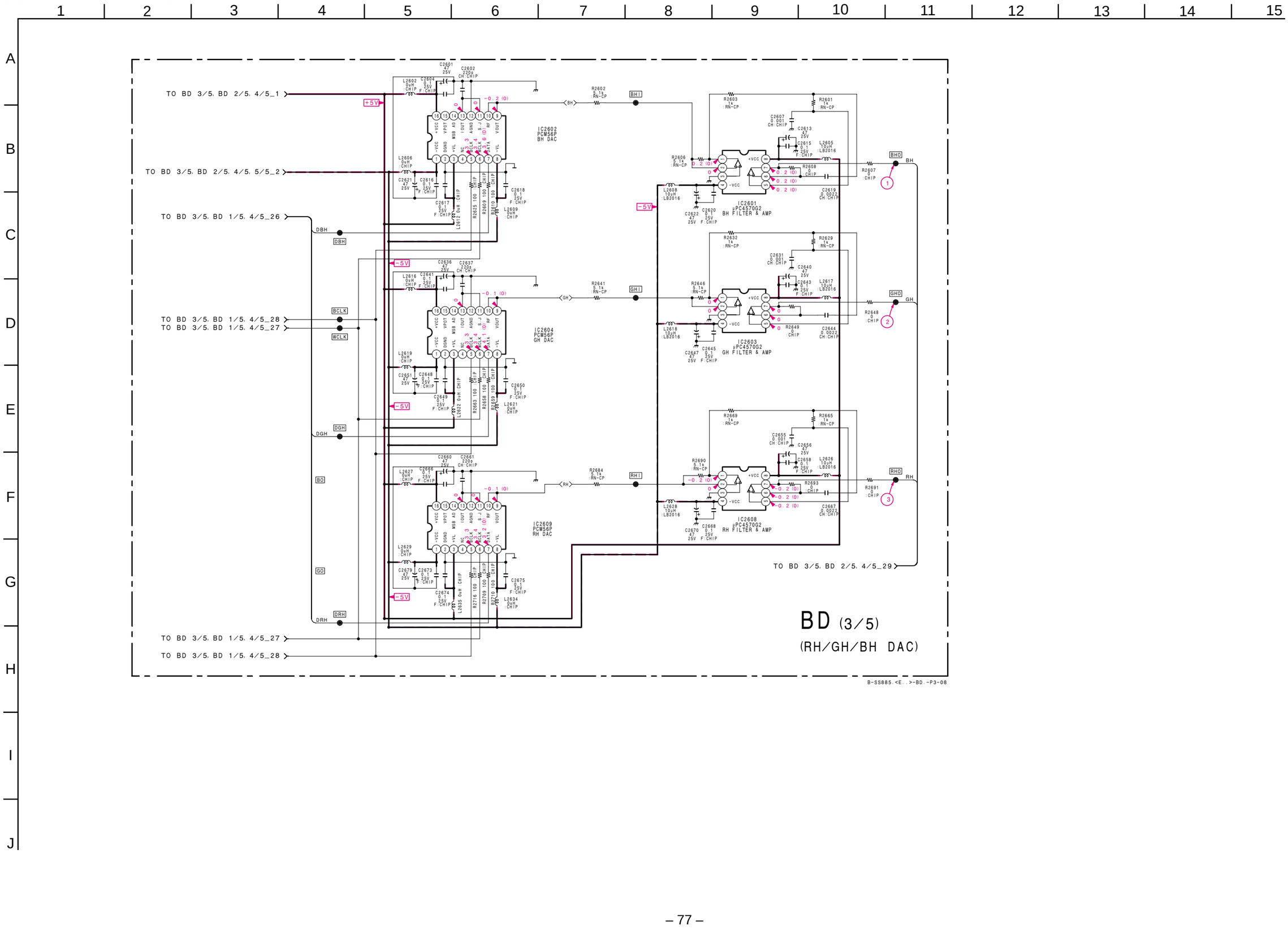
(12) Schematic Diagram of BD (1/5) Board



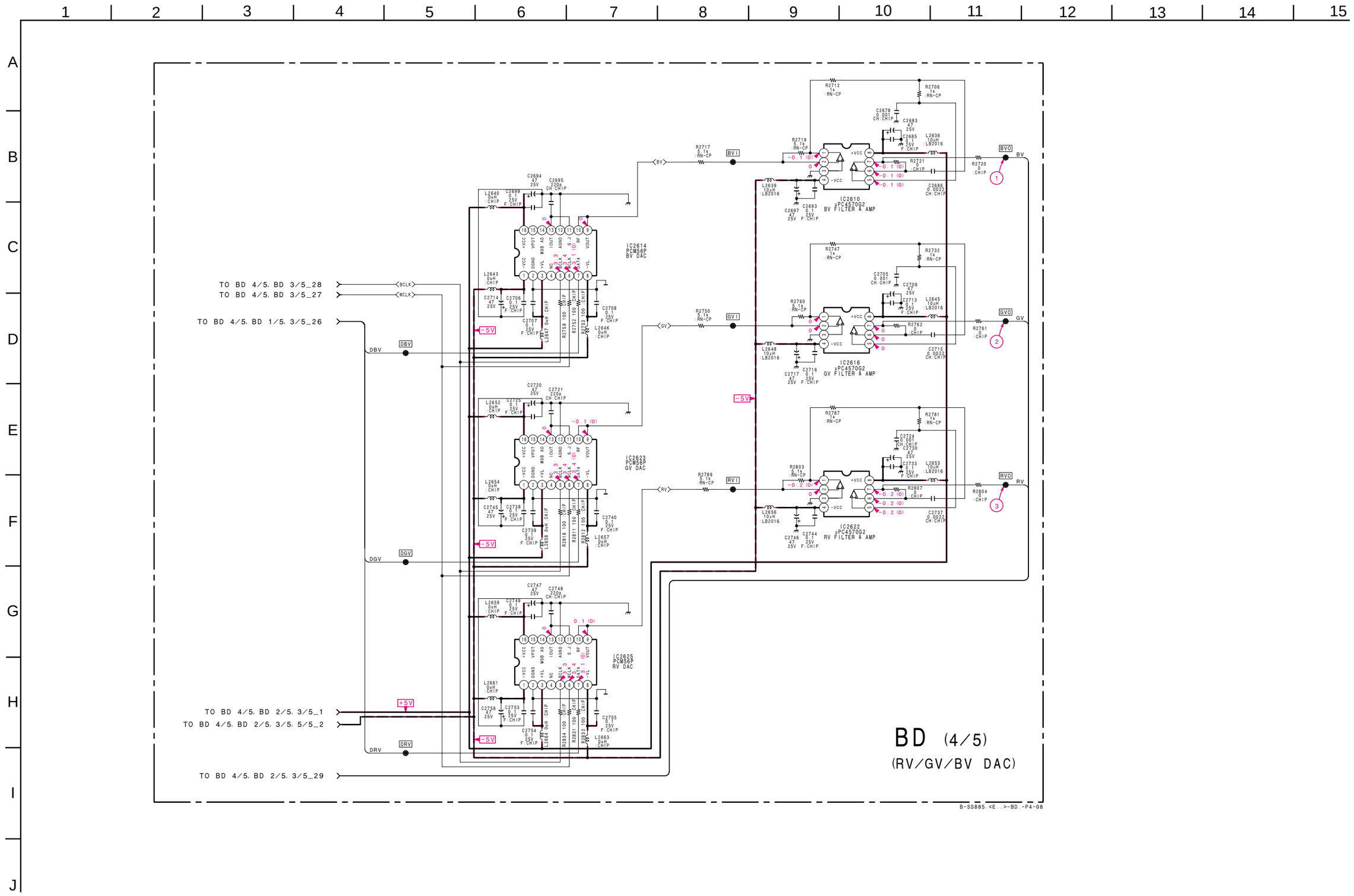
(13) Schematic Diagram of BD (2/5) Board



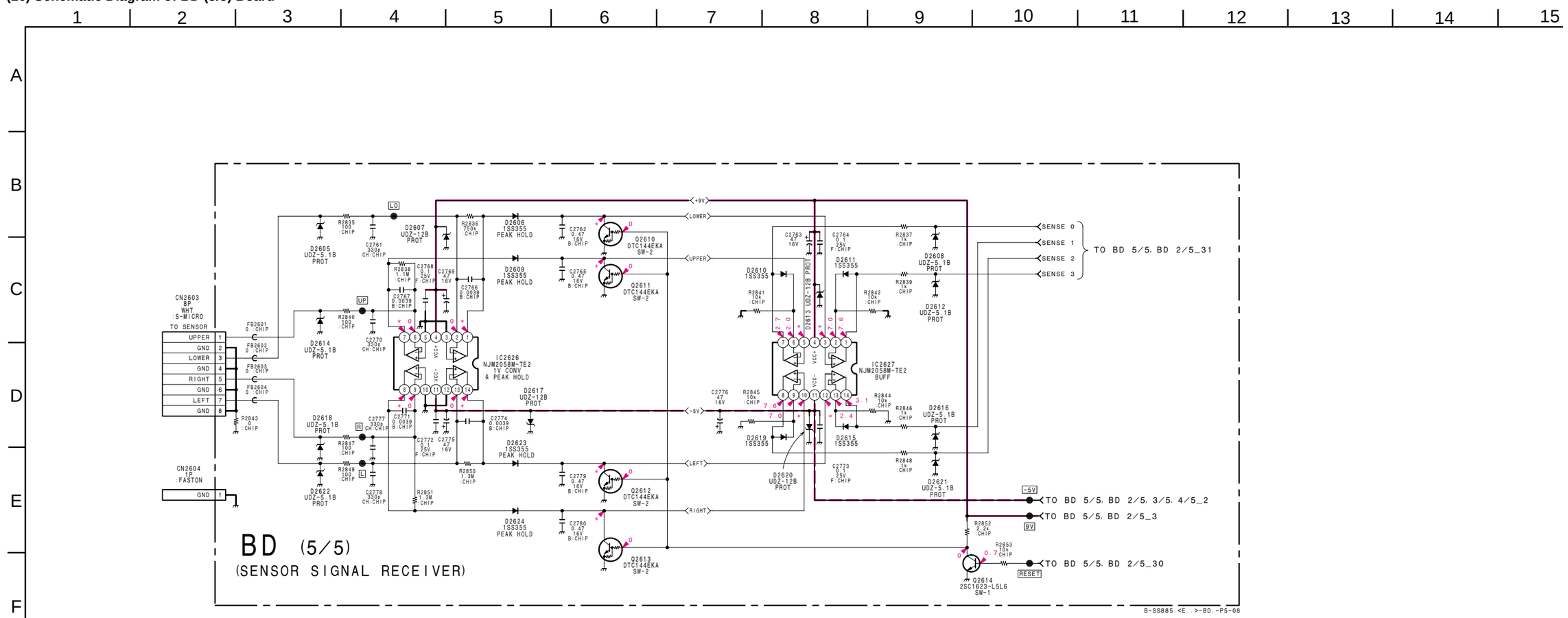
(14) Schematic Diagram of BD (3/5) Board



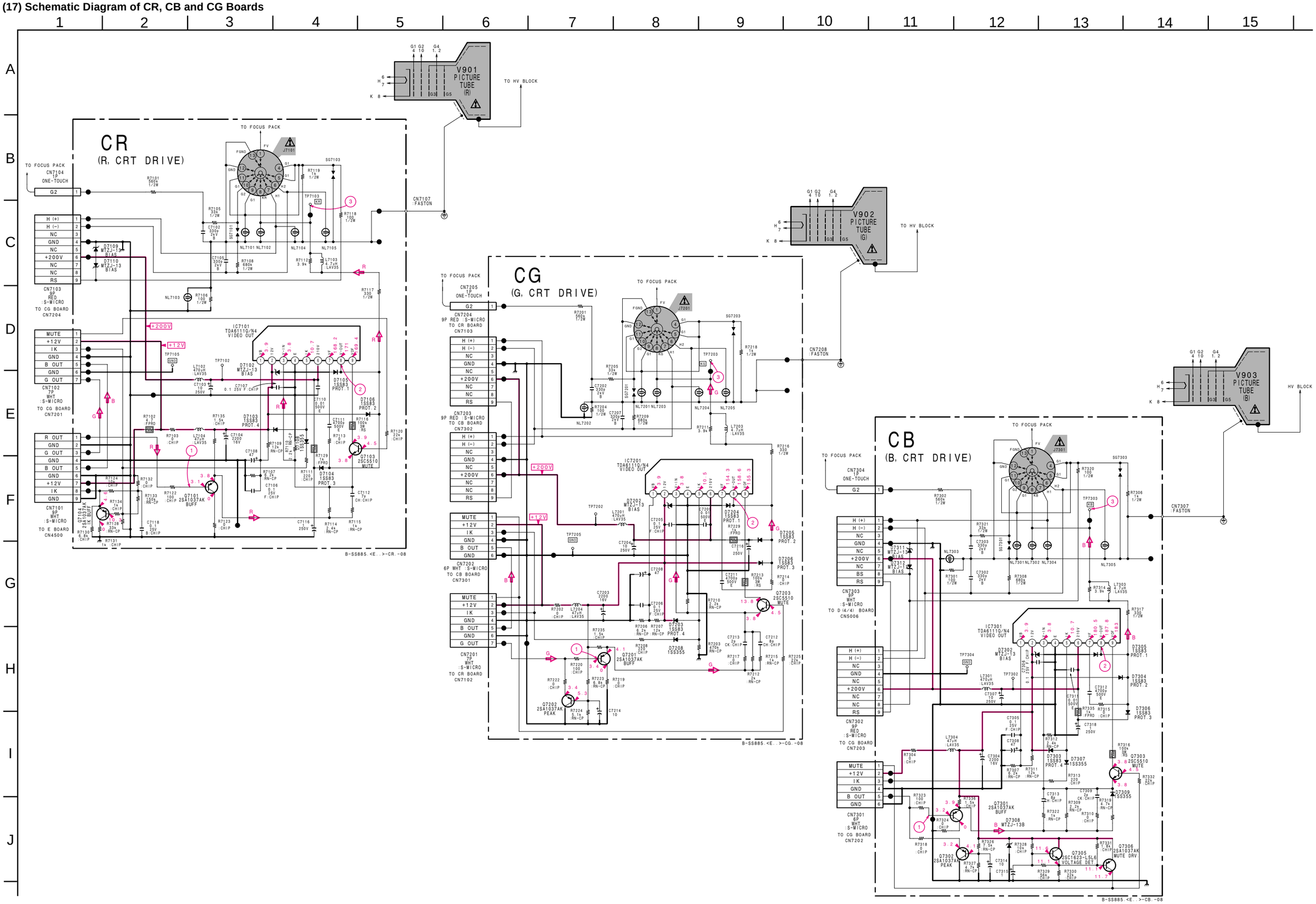
(15) Schematic Diagram of BD (4/5) Board



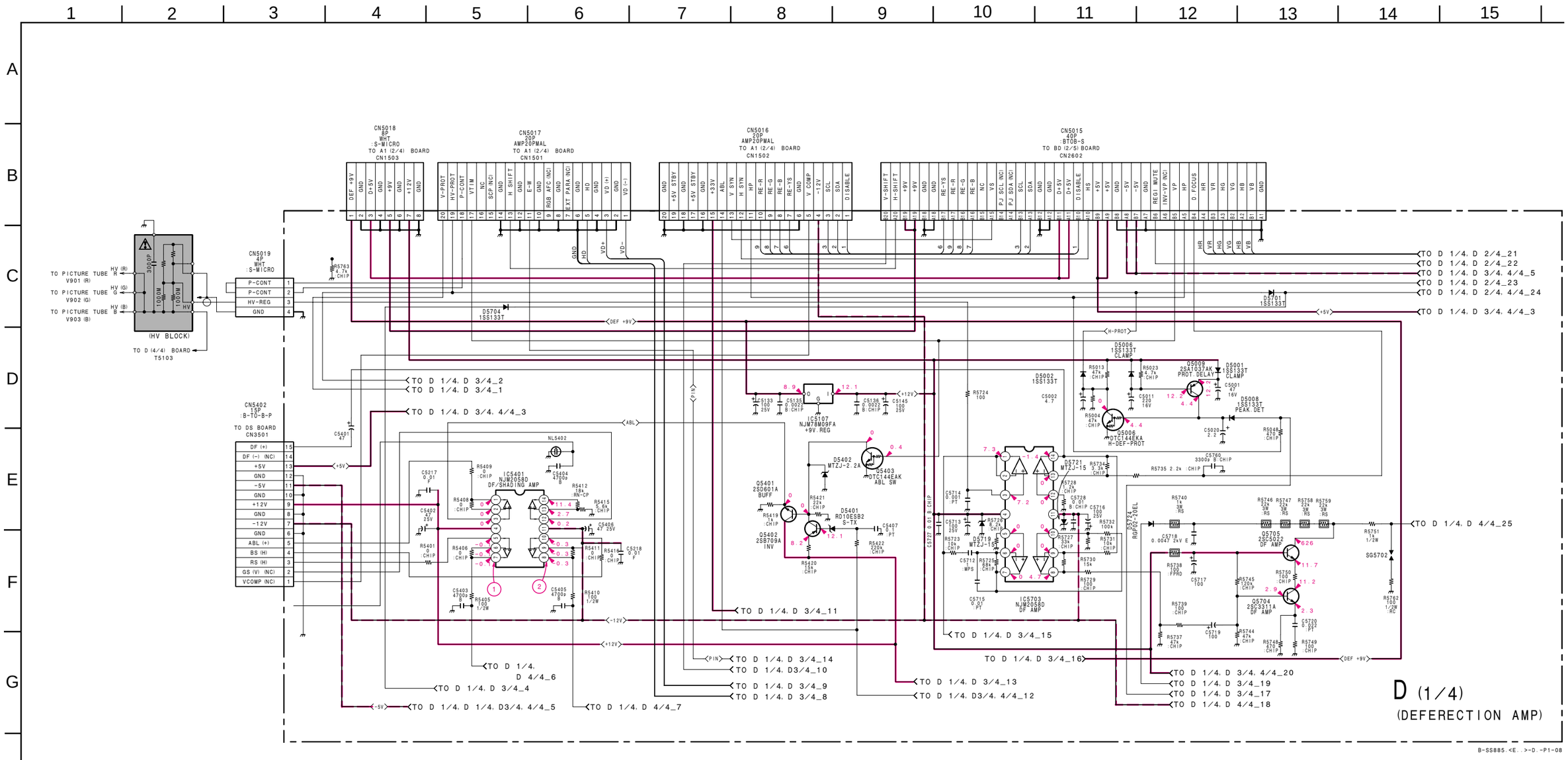
(16) Schematic Diagram of BD (5/5) Board



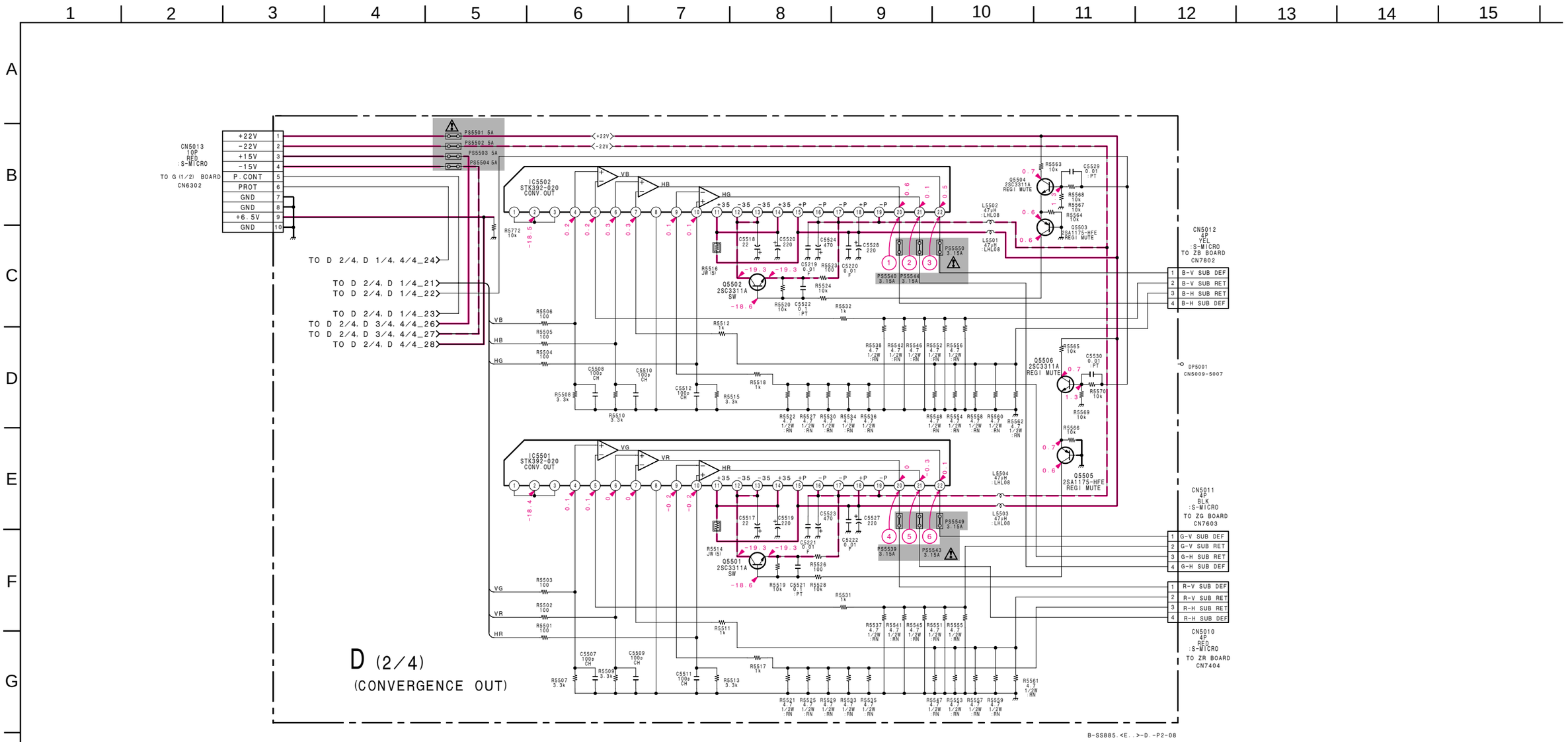
(17) Schematic Diagram of CR, CB and CG Boards



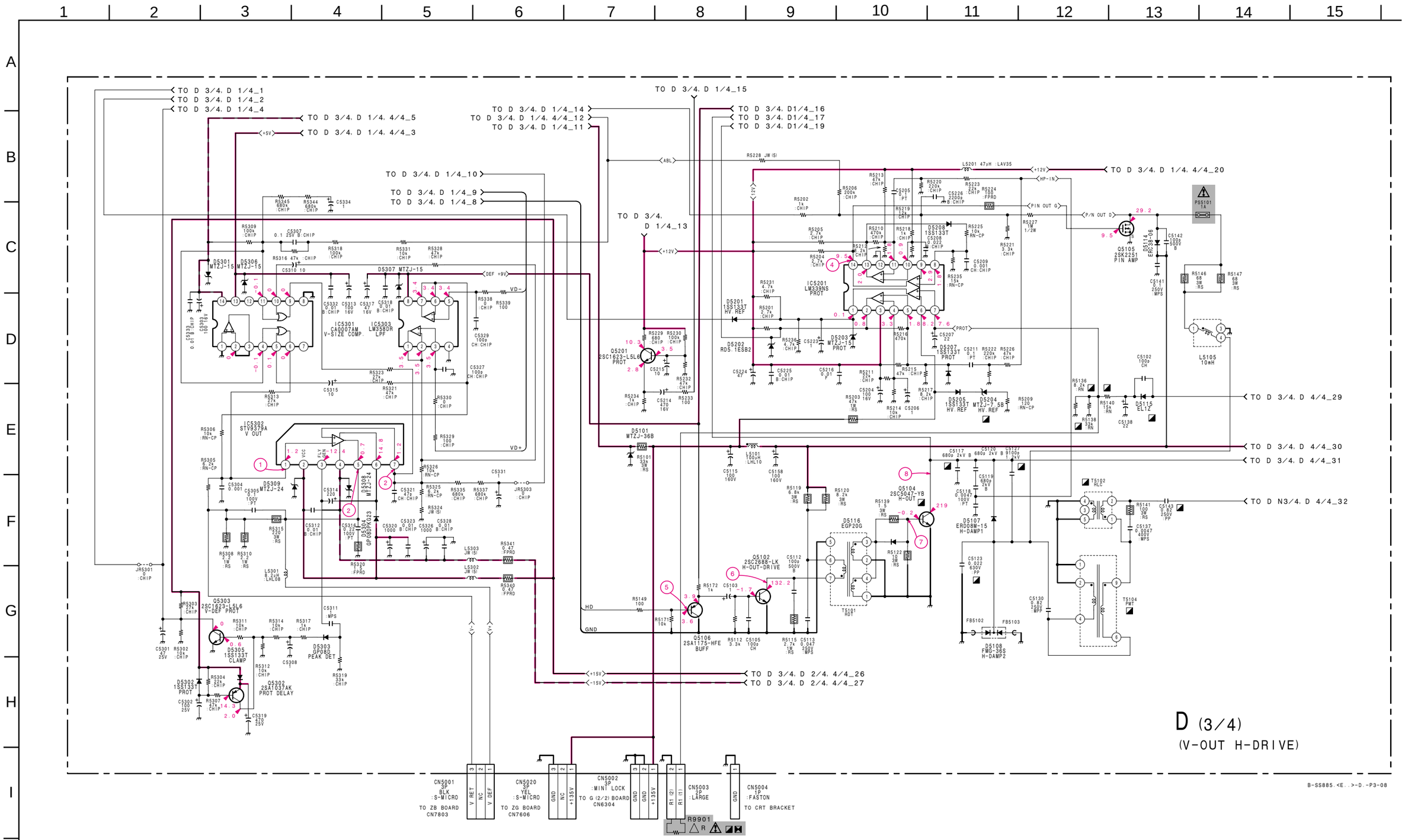
(18) Schematic Diagram of D(1/4) Board


CN5018 8P WHT :S-MICRO TO A1 (2/4) BOARD CN1503
CN5017 20P AMP20PMAL TO A1 (2/4) BOARD CN1501
CN5016 20P AMP20PMAL TO A1 (2/4) BOARD CN1502
CN5015 40P :BTOB-S TO BD (2/5) BOARD CN2602
CN5019 4P WHT :S-MICRO
CN5402 15P :B-TO-B-P TO DS BOARD CN3501
TO PICTURE TUBE V901 (R)
TO PICTURE TUBE V902 (G)
TO PICTURE TUBE V903 (B)
(HV BLOCK)
TO D (4/4) BOARD T5103
IC5401 NJM2058D DF/SHADING AMP
IC5703 NJM2058D DF AMP
Q5401 2SD601A BUFF
Q5402 2SB709A INV
Q5403 DTC144EAK ABL SW
Q5704 2SC3311A DF AMP
Q5705 2SC5022 DF AMP
Q5006 DTC144EKA H-DEF-PROT
D5402 MTZJ-2.2A
D5401 RD10ESB2 S-TX
D5721 MTZJ-15
D5719 MTZJ-15
D5002 1SS133T
D5004 1SS133T CLAMP
D5006 1SS133T CLAMP
D5009 2SA1037AK PROT.DELAY
D5001 1SS133T CLAMP
D5008 1SS133T PEAK.DET
D5701 1SS133T
D5704 1SS133T
IC5107 NJM78M09FA +9V.REG
TO D 1/4, D 3/4_1
TO D 1/4, D 3/4_2
TO D 1/4, D 3/4, 4/4_3
TO D 1/4, D 3/4_4
TO D 1/4, D 1/4, D3/4, 4/4_5
TO D 1/4, D 4/4_6
TO D 1/4, D 4/4_7
TO D 1/4, D 3/4_8
TO D 1/4, D 3/4_9
TO D 1/4, D3/4_10
TO D 1/4, D 3/4_11
TO D 1/4, D 3/4_12
TO D 1/4, D 3/4_13
TO D 1/4, D 3/4_14
TO D 1/4, D 3/4_15
TO D 1/4, D 3/4_16
TO D 1/4, D 3/4, 4/4_17
TO D 1/4, D 3/4, 4/4_18
TO D 1/4, D 3/4, 4/4_19
TO D 1/4, D 3/4, 4/4_20
TO D 1/4, D 4/4_18
TO D 1/4, D 2/4_21
TO D 1/4, D 2/4_22
TO D 1/4, D 3/4, 4/4_5
TO D 1/4, D 2/4_23
TO D 1/4, D 2/4, 4/4_24
TO D 1/4, D 3/4, 4/4_3
TO D 1/4, D 4/4_25
D (1/4)
(DEFERECTION AMP)
B-SSB85.<E..>-D.-P1-08

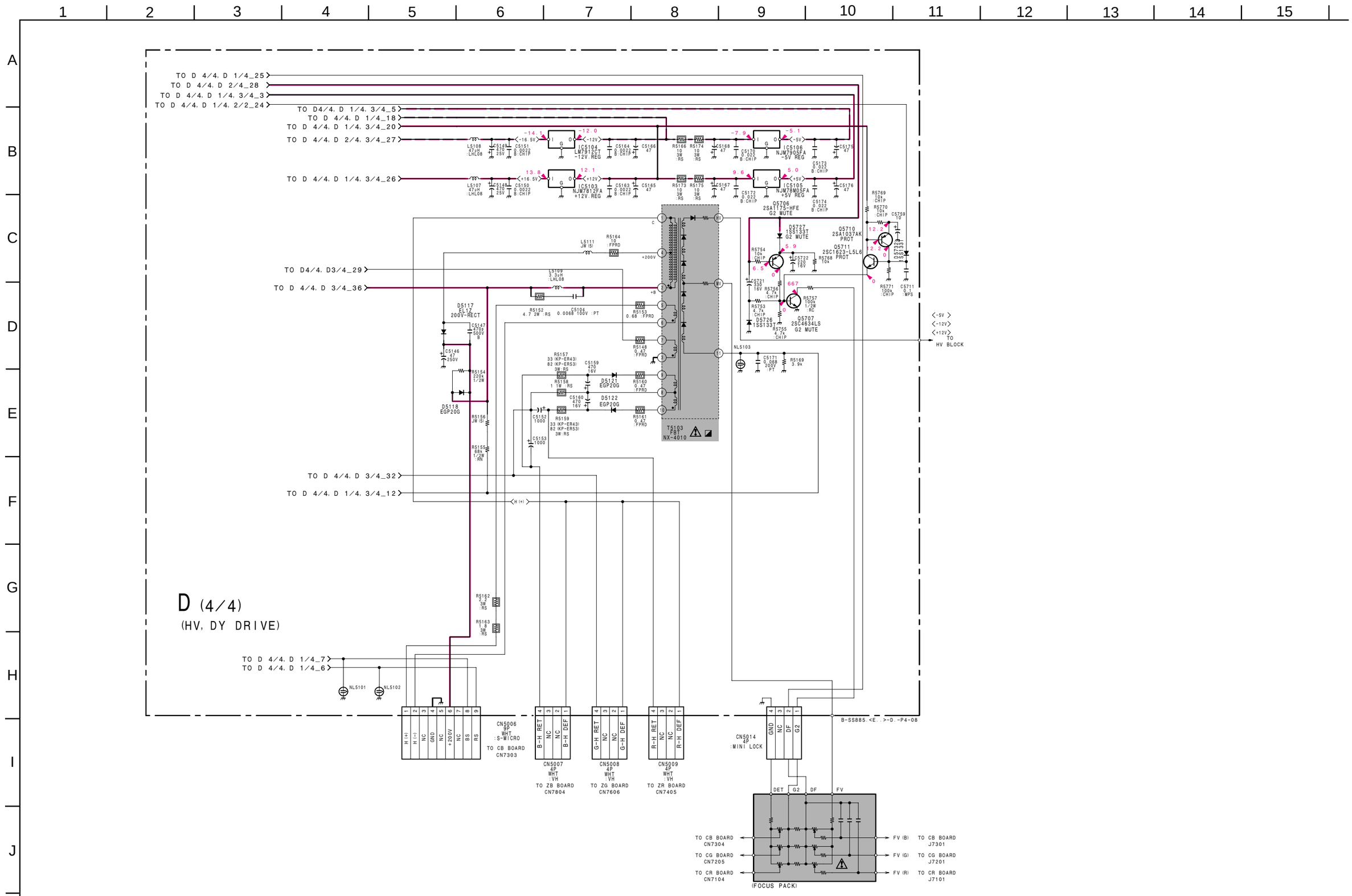
(19) Schematic Diagram of D(2/4) Board



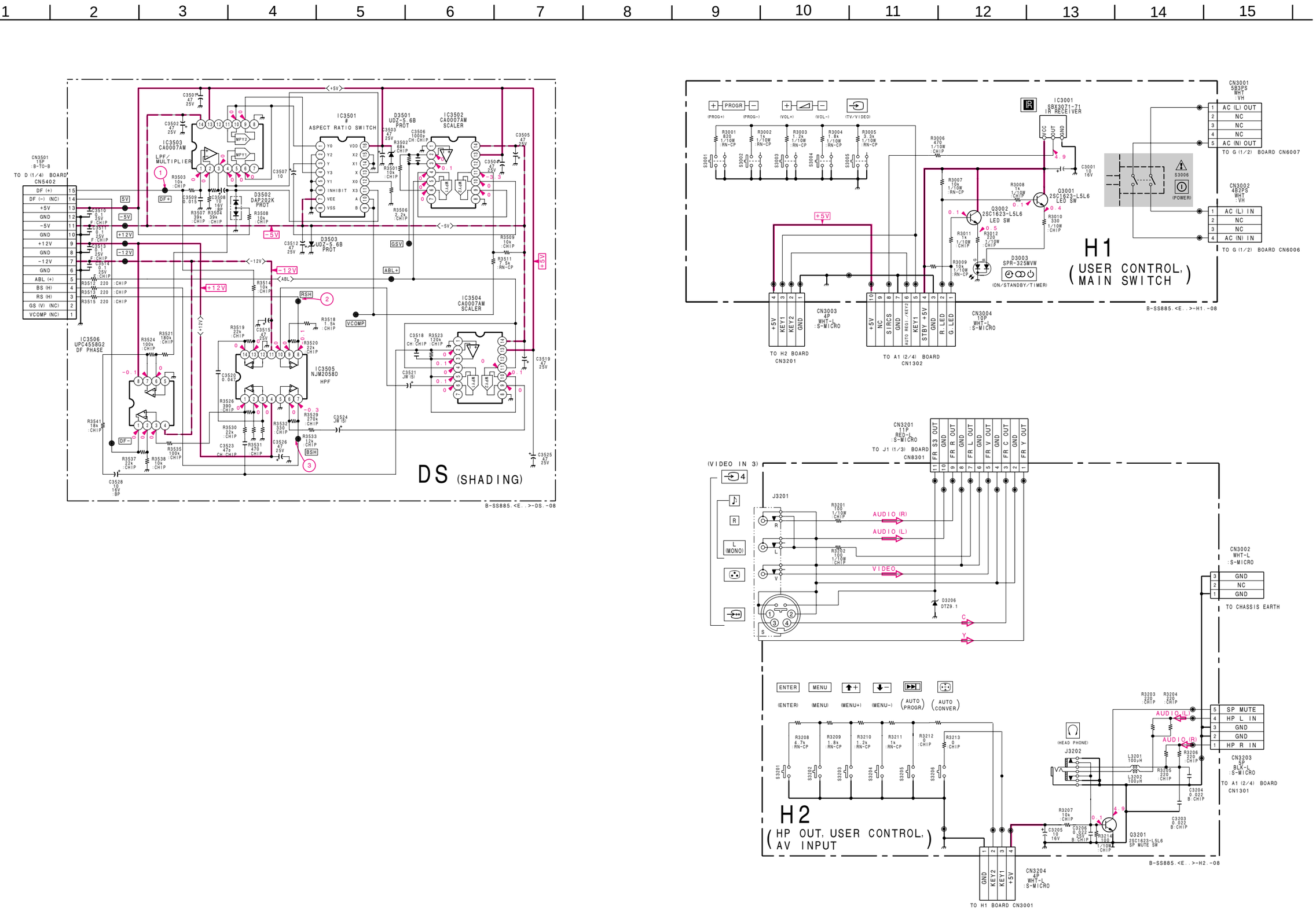
(20) Schematic Diagram of D(3/4) Board


TO D 3/4, D 1/4_1
TO D 3/4, D 1/4_2
TO D 3/4, D 1/4_4
TO D 3/4, D 1/4, 4/4_5
TO D 3/4, D 1/4, 4/4_3
TO D 3/4, D 1/4_15
TO D 3/4, D 1/4_14
TO D 3/4, D 1/4, 4/4_12
TO D 3/4, D 1/4_11
TO D 3/4, D1/4_16
TO D 3/4, D1/4_17
TO D 3/4, D1/4_19
TO D 3/4, D 1/4_10
TO D 3/4, D 1/4_9
TO D 3/4, D 1/4_8
TO D 3/4, D 1/4_13
TO D 3/4, D 1/4, 4/4_20
TO D 3/4, D 4/4_29
TO D 3/4, D 4/4_30
TO D 3/4, D 4/4_31
TO D N3/4, D 4/4_32
TO D 3/4, D 2/4, 4/4_26
TO D 3/4, D 2/4, 4/4_27
D (3/4)
(V-OUT H-DRIVE)
CN5001 3P BLK :S-MICRO TO ZB BOARD CN7803
CN5020 3P YEL :S-MICRO TO ZG BOARD CN7606
CN5002 9P :MINI LOCK TO G (2/2) BOARD CN6304
CN5003 2P :LARGE
CN5004 1P :FASTON TO CRT BRACKET
R9901
B-SS885-<E..>-D.-P3-08

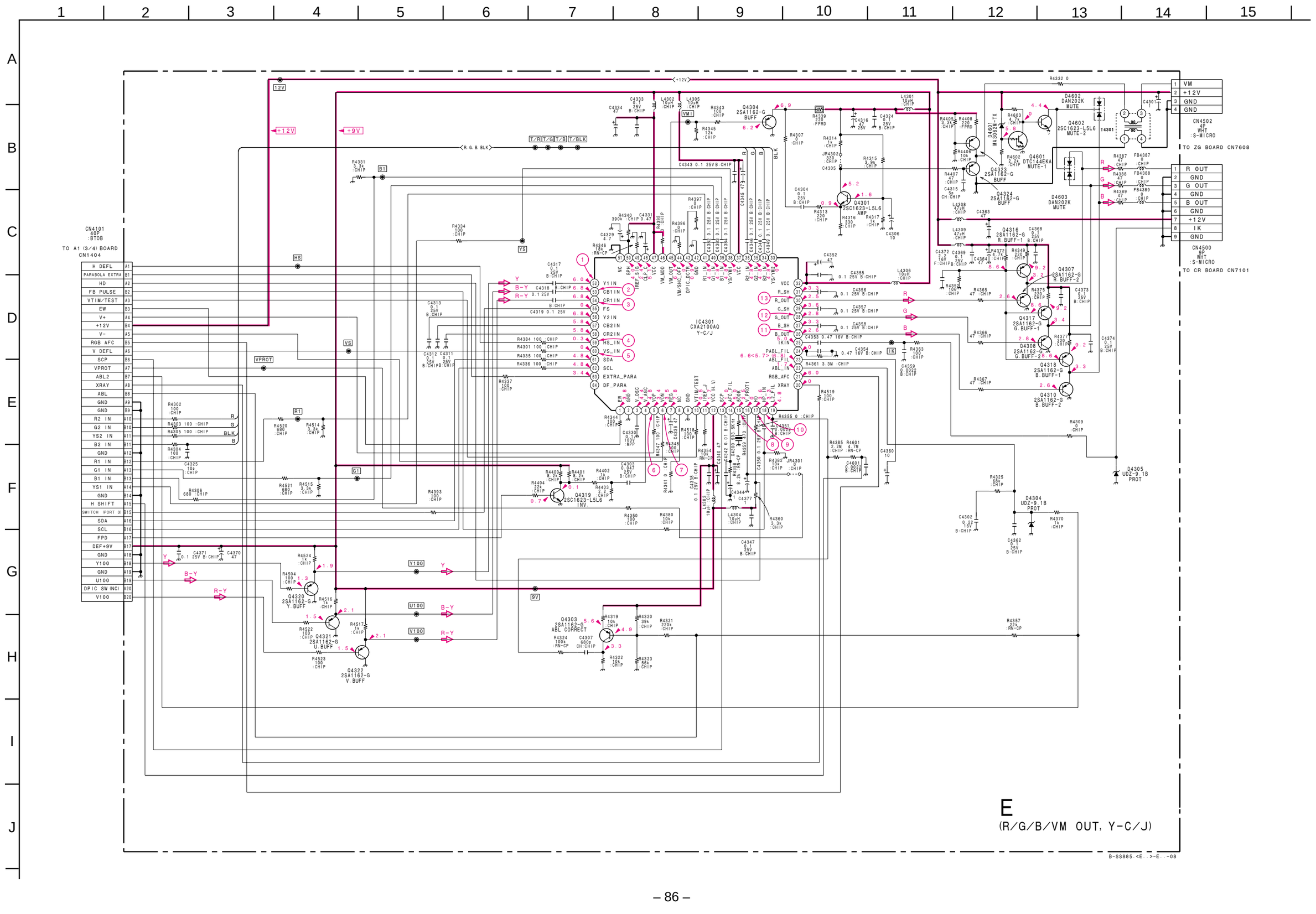
(21) Schematic Diagram of D(4/4) Board


TO D 4/4, D 1/4_25
TO D 4/4, D 2/4_28
TO D 4/4, D 1/4, 3/4_3
TO D 4/4, D 1/4, 2/2_24
TO D4/4, D 1/4, 3/4_5
TO D 4/4, D 1/4_18
TO D 4/4, D 1/4, 3/4_20
TO D 4/4, D 2/4, 3/4_27
TO D 4/4, D 1/4, 3/4_26
TO D4/4, D3/4_29
TO D 4/4, D 3/4_36
TO D 4/4, D 3/4_32
TO D 4/4, D 1/4, 3/4_12
TO D 4/4, D 1/4_7
TO D 4/4, D 1/4_6
IC5104 LM7912CT -12V REG
IC5103 NJM7812FA +12V REG
IC5106 NJM7905FA -5V REG
IC5105 NJM78M05FA +5V REG
Q5706 2SA1175-HFE G2 MUTE
Q5710 2SA1037AK PROT
Q5711 2SC1623-L5L6 PROT
Q5707 2SC4634LS G2 MUTE
D5727 1SS133T G2 MUTE
D5726 1SS133T
D5117 EL1Z 200V-RECT
D5118 EGP20G
D5121 EGP20G
D5122 EGP20G
T5103 FBT NX-4010
NL5103
TO HV BLOCK
D (4/4)
(HV, DY DRIVE)
NL5101
NL5102
CN5006 9P WHT S-MICRO TO CB BOARD CN7303
CN5007 4P WHT VH TO ZB BOARD CN7804
CN5008 4P WHT VH TO ZG BOARD CN7606
CN5009 4P WHT VH TO ZR BOARD CN7405
CN5014 4P MINI LOCK
B-SS885 <E..>-D.-P4-08
DET G2 DF FV
TO CB BOARD CN7304
TO CG BOARD CN7205
TO CR BOARD CN7104
FV (B) TO CB BOARD J7301
FV (G) TO CG BOARD J7201
FV (R) TO CR BOARD J7101
(FOCUS PACK)

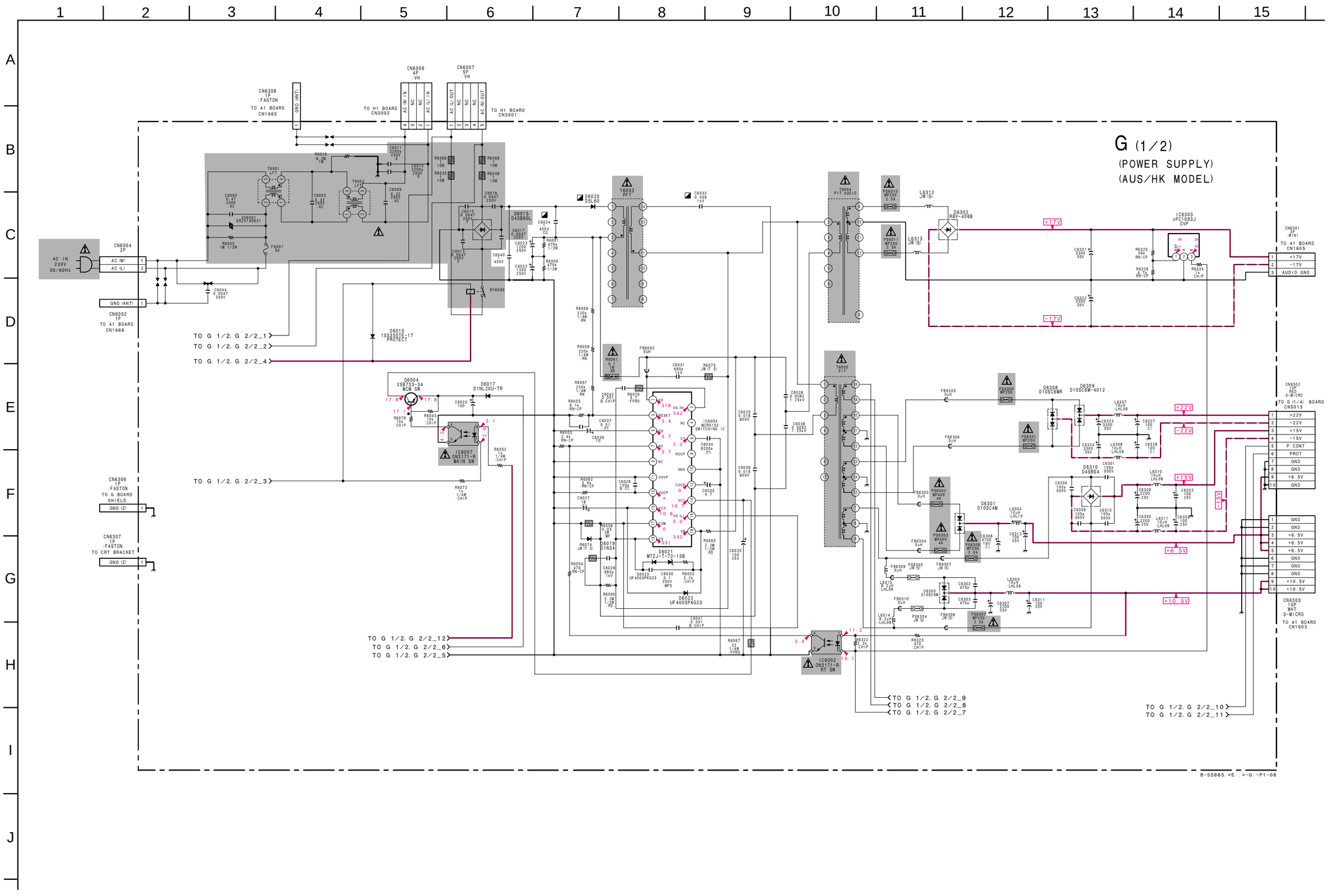
(22) Schematic Diagram of DS, H1 and H2 Boards



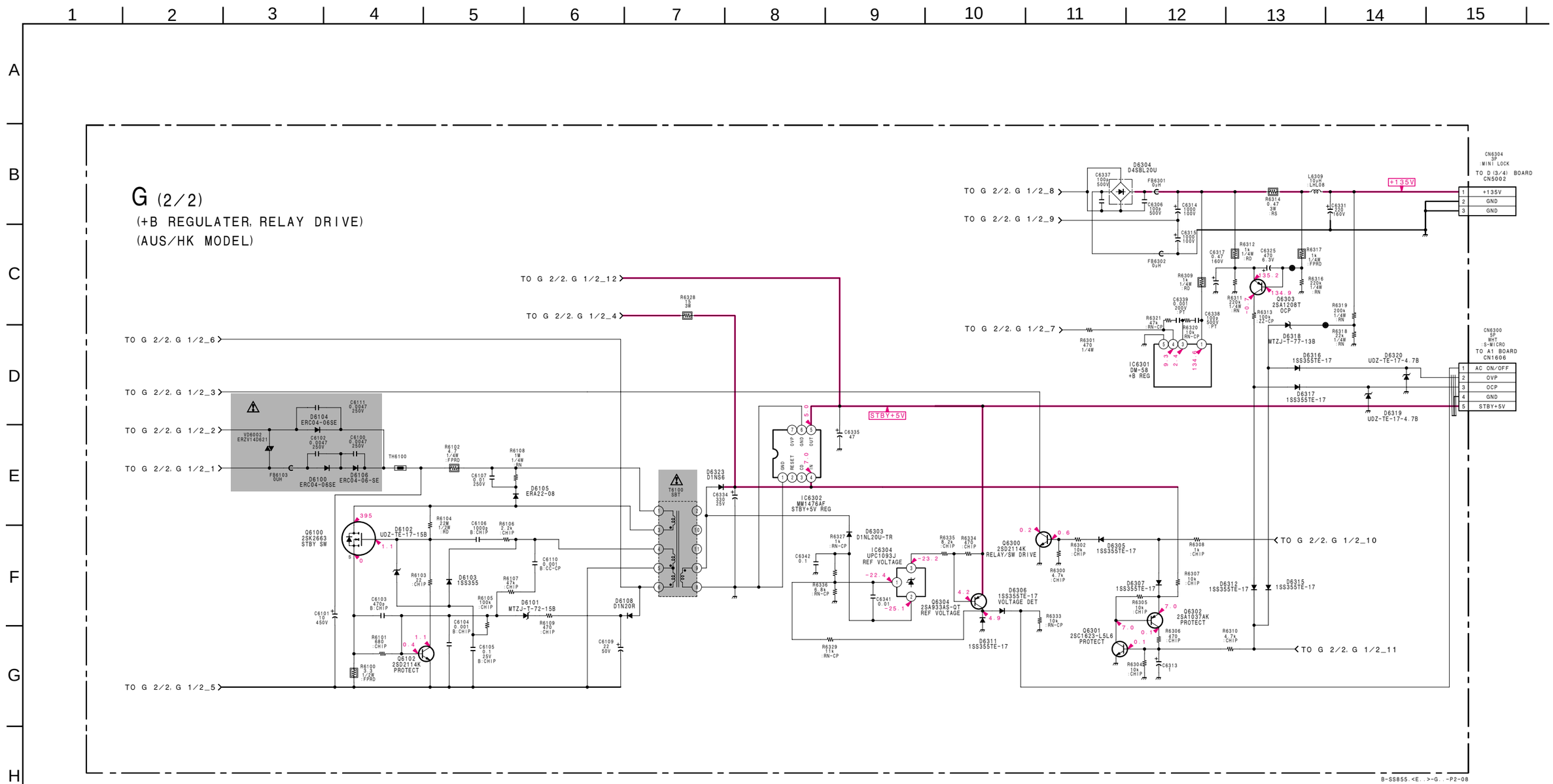
(23) Schematic Diagram of E Board



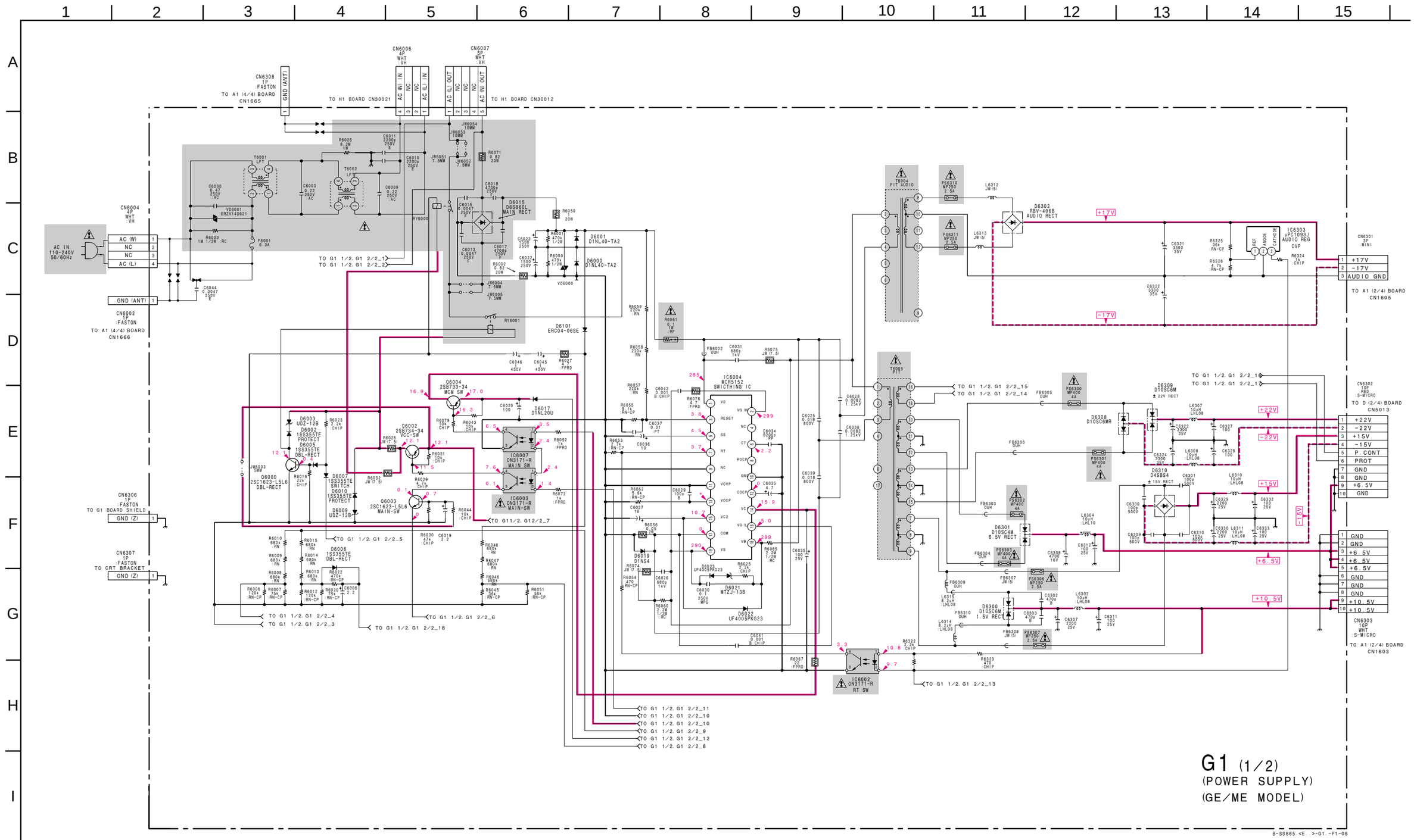
(24) Schematic Diagram of G(1/2) Board



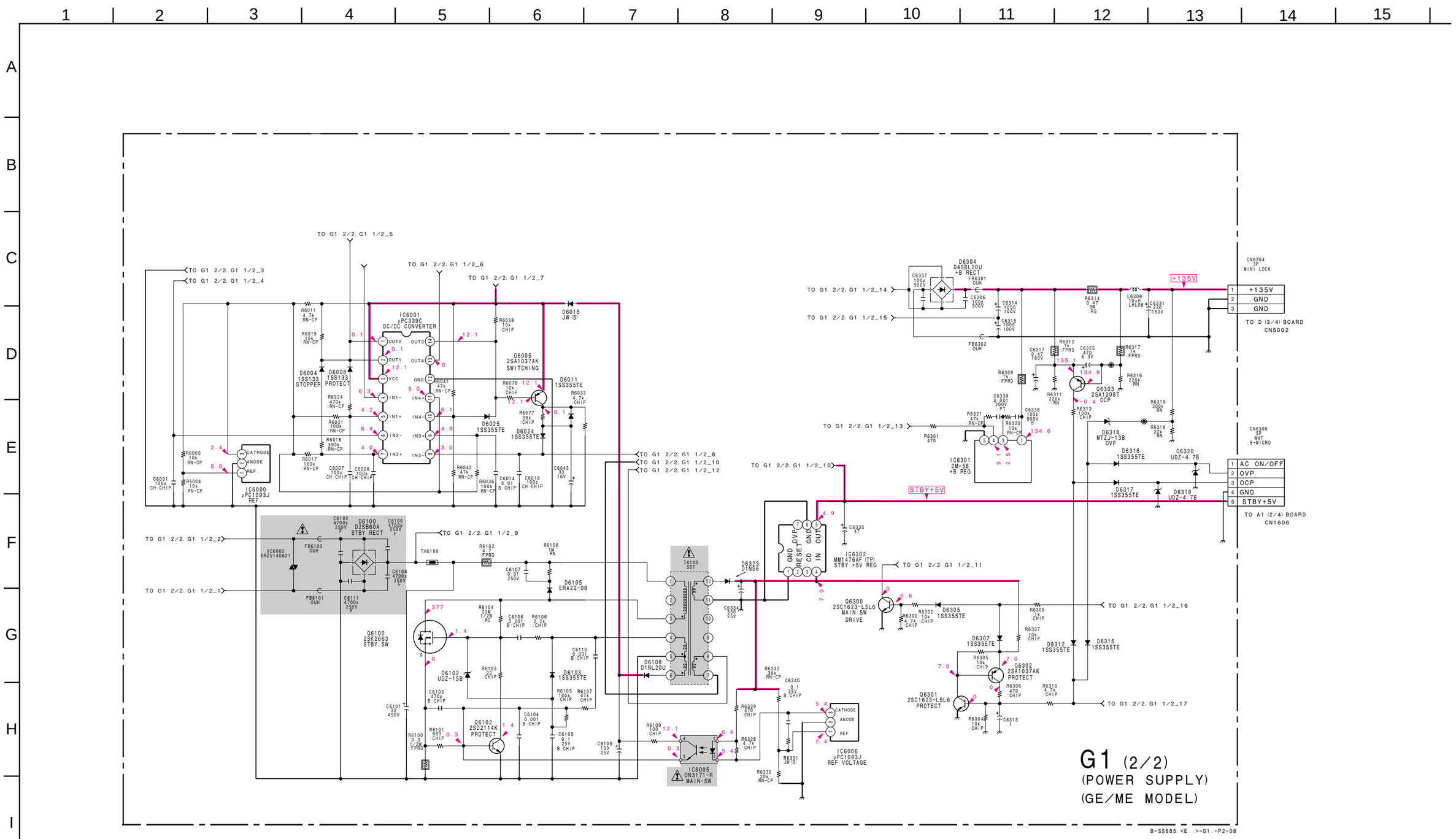
(25) Schematic Diagram of G(2/2) Board



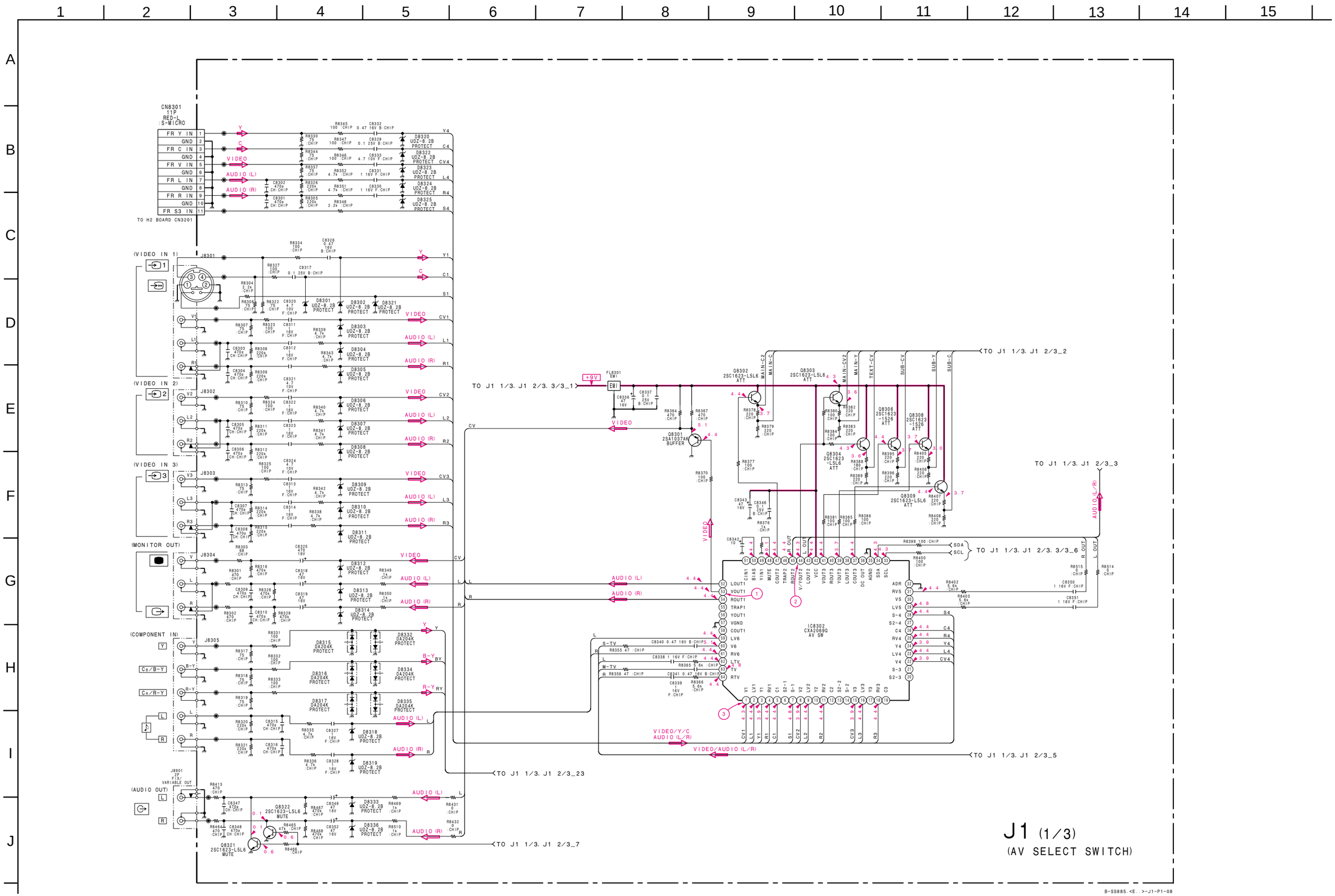
(26) Schematic Diagram of G1(2/2) Board



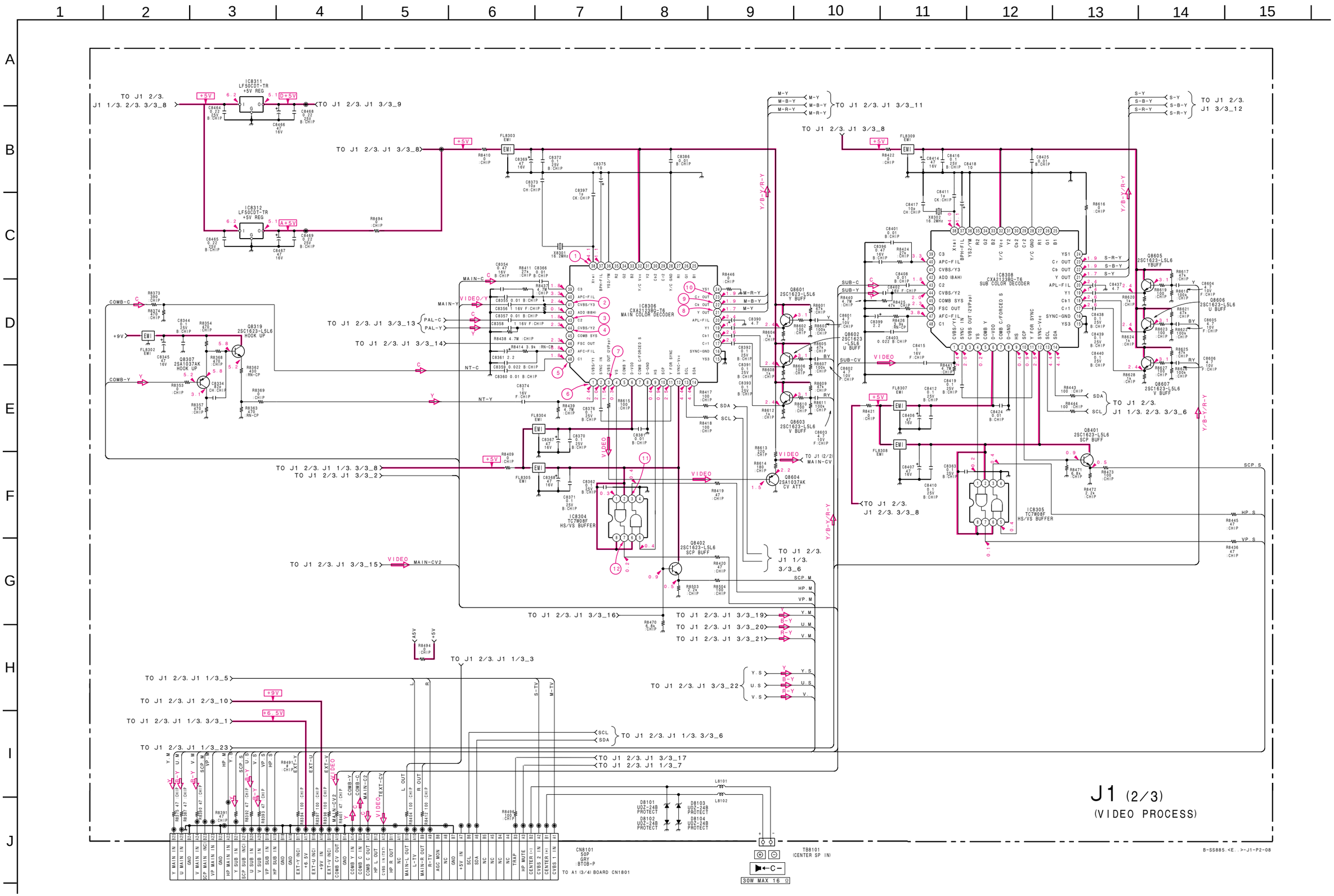
(27) Schematic Diagram of G1(2/2) Board



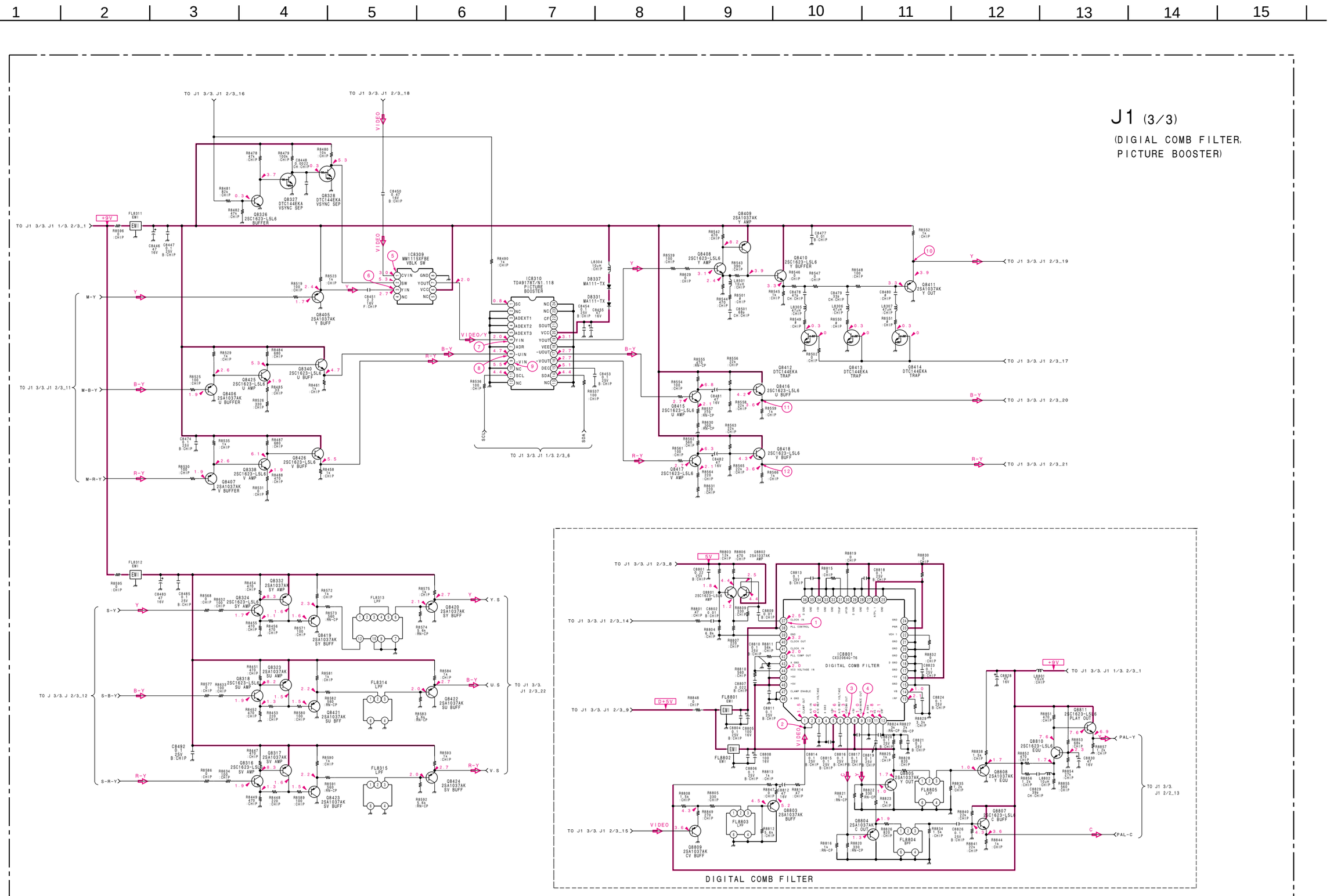
(28) Schematic Diagram of J1 (1/3) Board



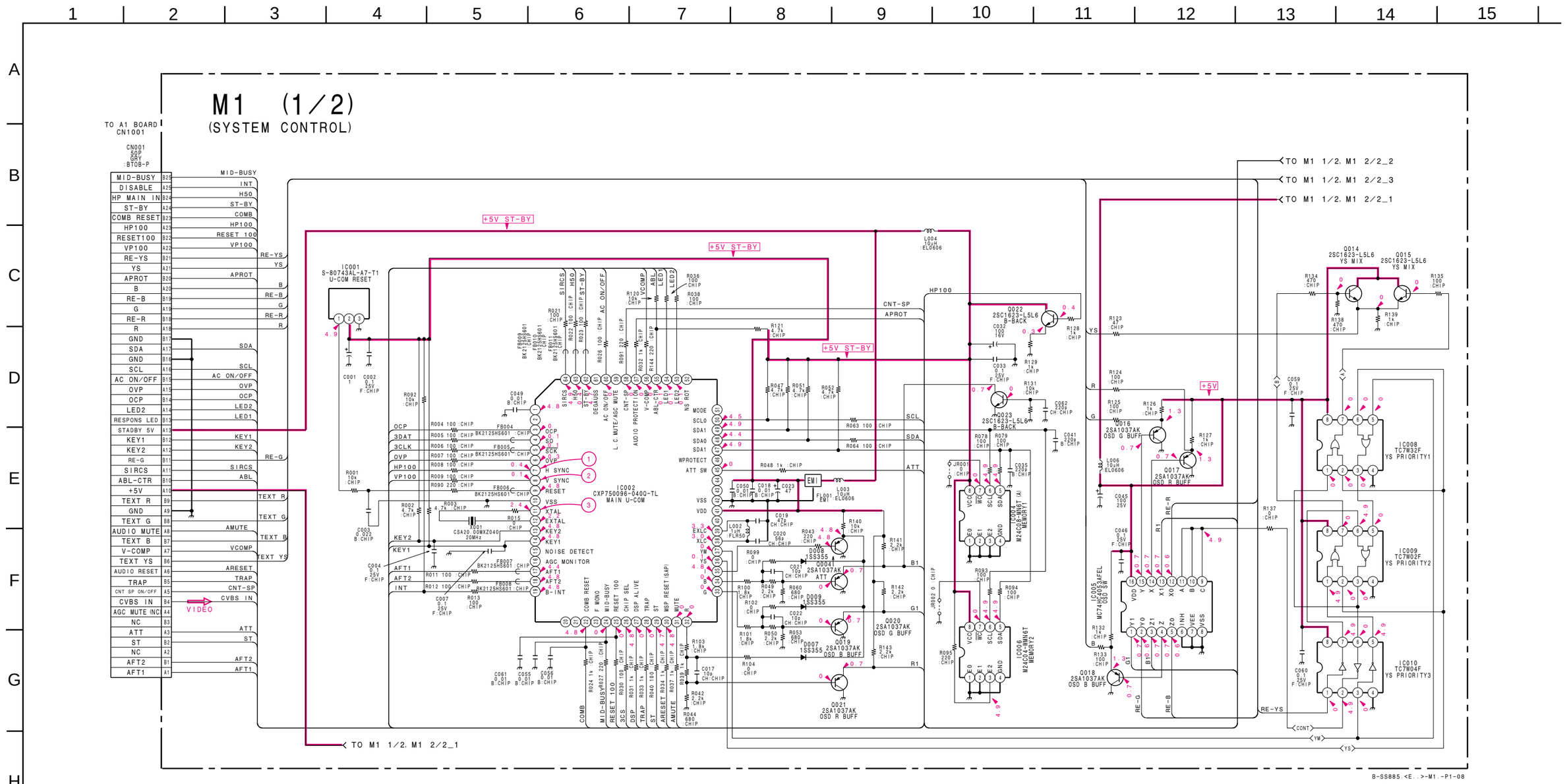
(29) Schematic Diagram of J1(2/3) Board



(30) Schematic Diagram of J1(3/3) Board



(31) Schematic Diagram of M1(1/2) Board



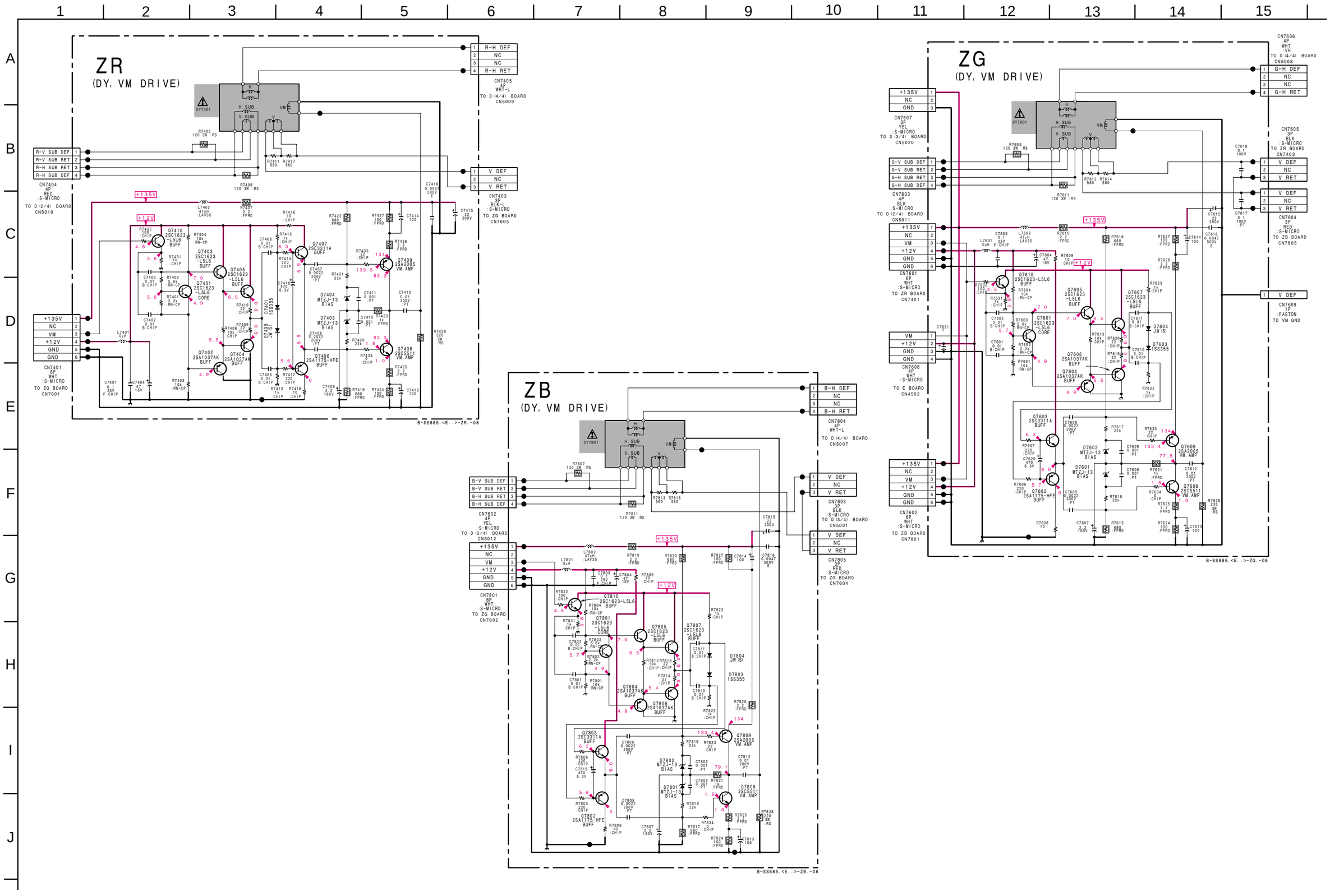
(32) Schematic Diagram of M1(2/2) Board

M1 (2/2)
(TELE TEXT)

YS	YM	RE-YS	CONT	A	B
0	0	0	1	0	0
0	0	1	0	1	0
0	1	0	1	0	1
0	1	1	1	0	1
1	0	0	1	1	0
1	0	1	1	1	0
1	1	0	1	1	0
1	1	1	1	1	0

B-SS885.<E..>-M1.-P2-08

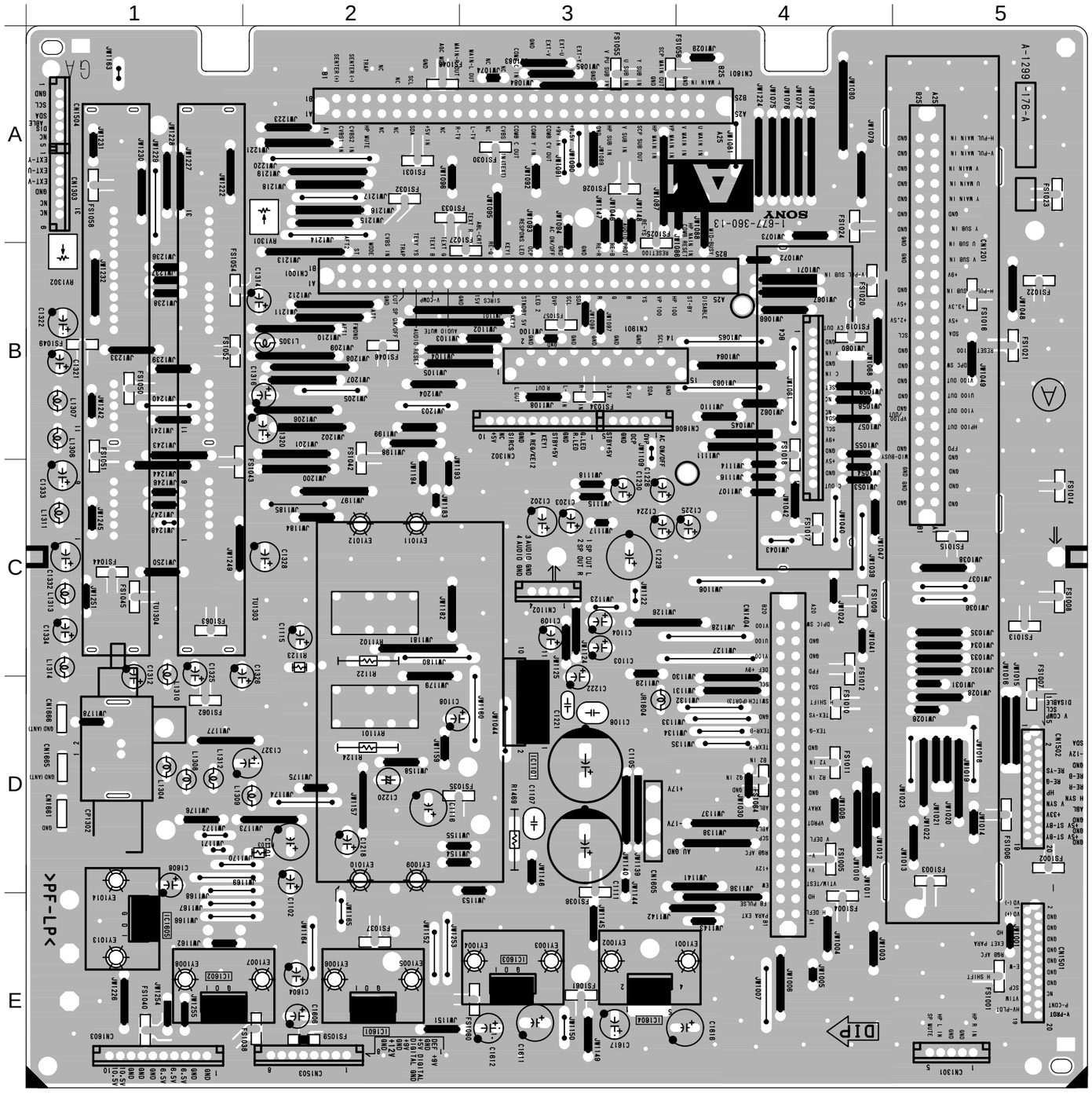
(33) Schematic Diagram of ZR, ZB and ZG Boards



6-5. PRINTED WIRING BOARDS

A1 [AUDIO AMP,TUNER,+B REGIJATOR]

— A1 BOARD (COMPONENT SIDE) —



- **A1 BOARD SEMICONDUCTOR LOCATION**

IC

(Component Side)	(Conductor Side)
IC8302 A-1	
IC8304	C-2
IC8305	C-1
IC8306 C-1	
IC8308 C-2	
IC8309 D-1	
IC8310 D-1	
IC8311 D-1	
IC8312 E-2	
IC8801 C-2	

TRANSISTOR

(Component Side)	(Conductor Side)	∗
Q8301	A-2	①
Q8302	A-2	①
Q8303	A-2	①
Q8304	A-2	①
Q8306	A-2	①
Q8307 E-2		②
Q8308	A-2	①
Q8309	A-2	①
Q8316 D-2		②
Q8317 D-2		②
Q8318 D-2		②
Q8319 D-2		②
Q8321	B-1	①
Q8322	B-1	①
Q8323 D-2		②
Q8324 D-2		②
Q8326	D-2	①
Q8327	D-2	①
Q8328	D-2	①
Q8332 D-2		②
Q8338	D-2	①
Q8340 D-1		②
Q8401	C-1	①
Q8402	C-2	①
Q8405	D-2	①
Q8406	D-2	①
Q8407	D-2	①
Q8408	D-2	①
Q8409 E-1		②
Q8410 E-1		②
Q8411 E-1		②
Q8412 E-1		②
Q8413 E-1		②
Q8414 E-1		②
Q8415 E-1		②
Q8416 E-1		–
Q8417 E-1		–
Q8418 E-1		–
Q8419 D-2		–
Q8420 E-2		②
Q8421	D-1	①
Q8422 E-2		②
Q8423	D-1	①
Q8424 E-2		②
Q8425	D-2	①
Q8426	D-2	①
Q8601 C-1		②
Q8602 C-1		②
Q8603 C-1		②
Q8604 C-1		②
Q8605 C-2		②
Q8606 C-2		②
Q8607 C-2		②
Q8801 C-2		②
Q8802 C-2		②
Q8803	D-2	①
Q8804	D-1	①
Q8805 D-2		②
Q8807 D-2		②
Q8808 D-2		②
Q8809 D-2		②
Q8810 C-2		②
Q8811 C-2		②

DIODE

(Component Side)	(Conductor Side)	∗
D8101	A-1	③
D8102	A-1	③
D8103	A-1	③
D8104	A-1	③
D8301	A-2	③
D8302	B-2	③
D8303	B-2	③
D8304	B-2	③
D8305	C-2	③
D8306	B-2	③
D8307	B-2	③
D8308	C-2	③
D8309	B-2	③
D8310	B-2	③
D8311	B-2	③
D8312	A-2	③
D8313	A-2	③
D8314	A-2	③
D8315	B-2	④
D8316	B-2	④
D8317	B-2	③
D8318	B-2	③
D8319	B-2	③
D8320	A-2	③
D8321	A-2	③
D8322 A-2		③
D8323	A-1	③
D8324 A-2		③
D8325 A-2		③
D8331	D-2	③
D8332	B-1	④
D8333	B-1	③
D8334	B-1	④
D8335	B-2	④
D8336	B-1	③
D8337	D-2	③

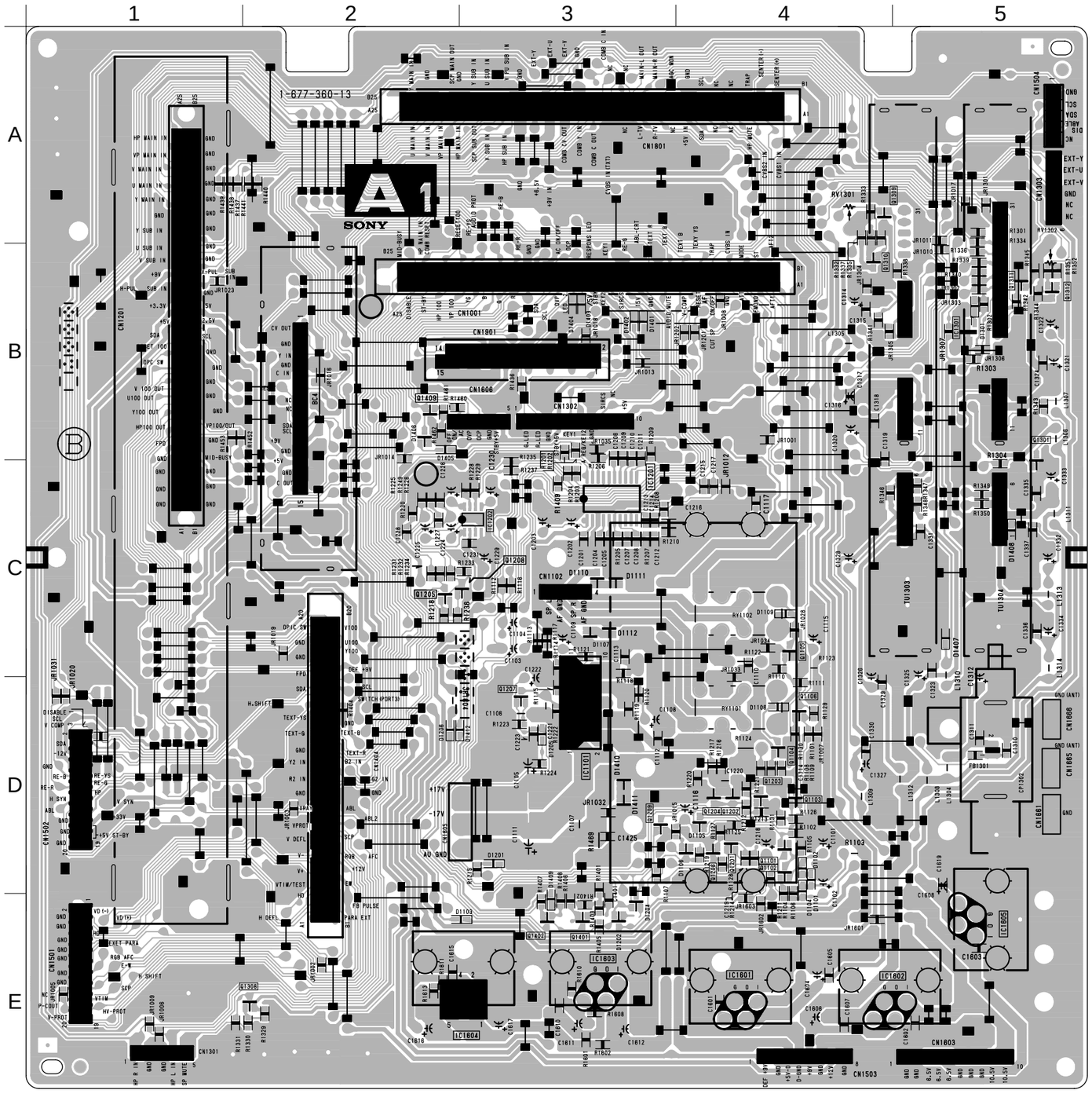
CRYSTAL

(Component Side)	(Conductor Side)
X8301 D-1	
X8302 D-1	

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

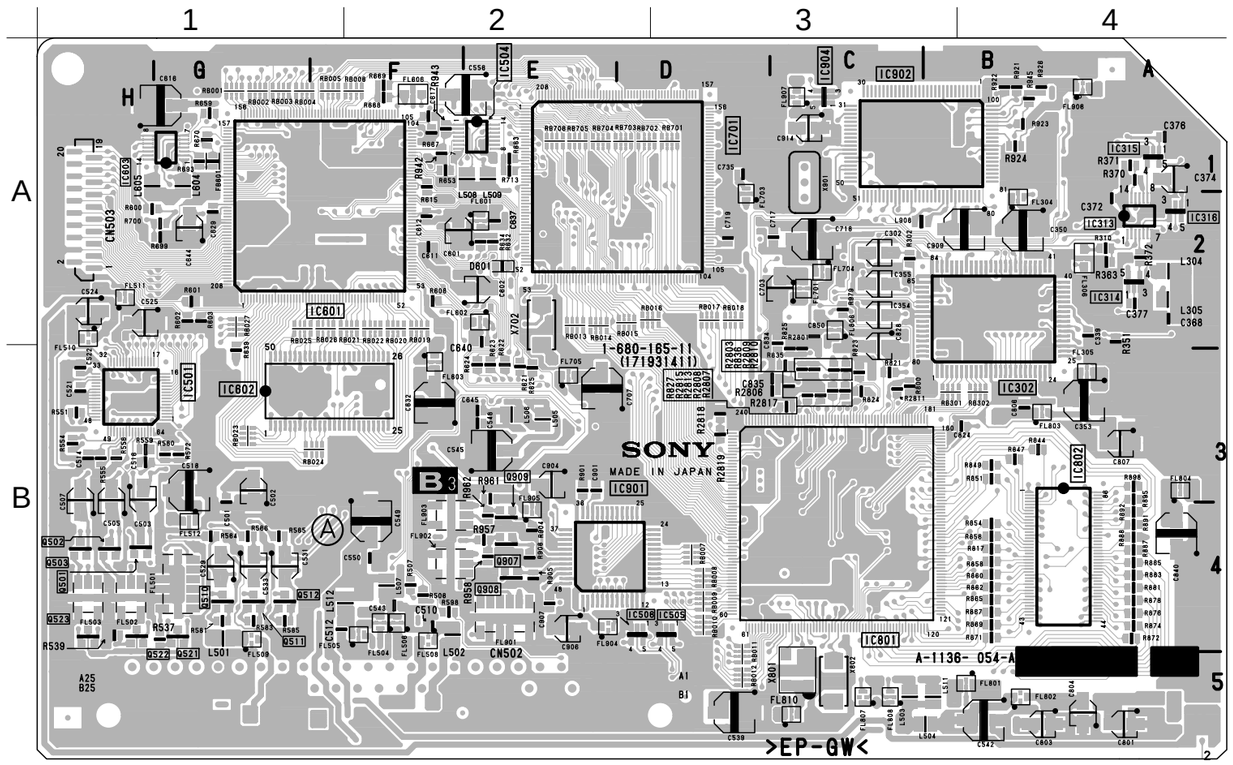
A1 [AUDIO AMP,TUNER,+B REGULATOR]

— A1 BOARD (CODUCTOR SIDE) —

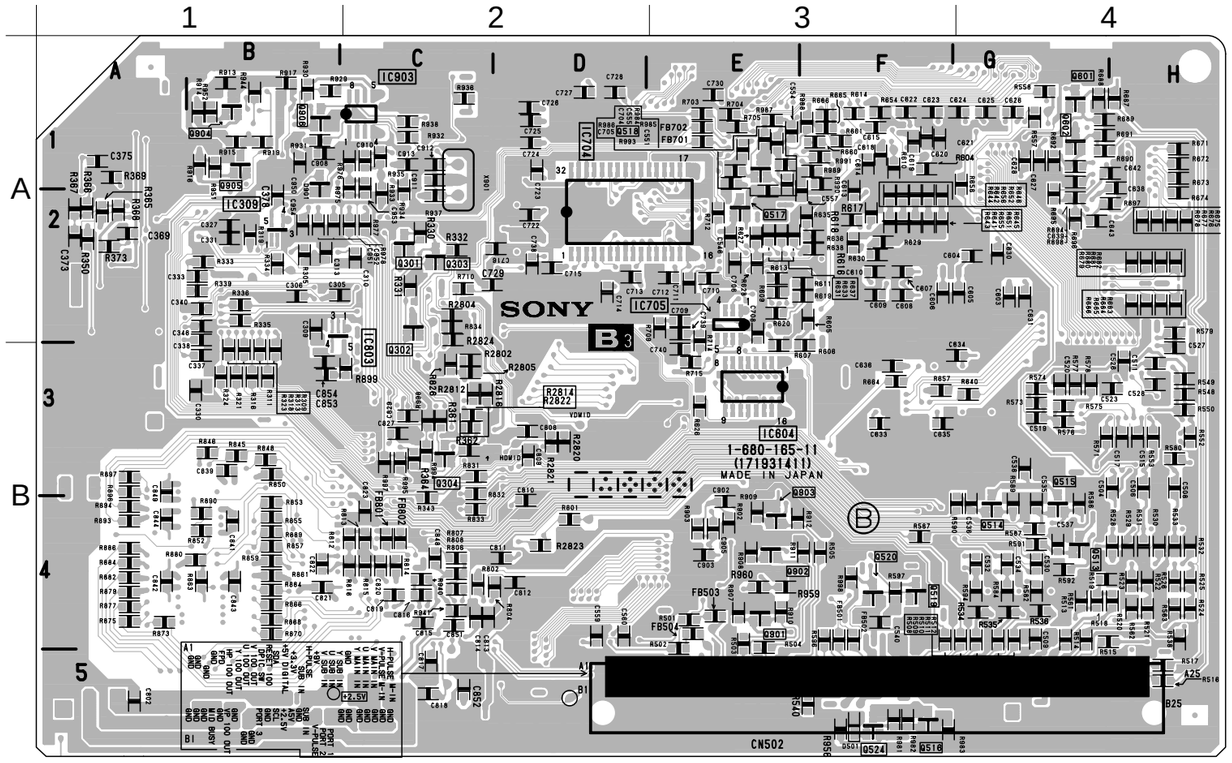


B3 [DRC,MID-X,V PROCESS]

— B3 BOARD (COMPONENT SIDE) —



— B3 BOARD (CODUCTOR SIDE) —



- **B3 BOARD SEMICONDUCTOR LOCATION**

IC	(Component Side)	(Conductor Side)
IC313	A-4	
IC314	A-4	
IC315	A-4	
IC316	A-4	
IC501	B-1	
IC504	A-2	
IC505	B-3	
IC506	B-2	
IC601	A-1	
IC602	B-1	
IC603	A-1	
IC604		B-3
IC801	B-3	
IC802	B-4	
IC803		A-2
IC901	B-2	
IC902	A-3	
IC903		A-2
IC904	A-3	

TRANSISTOR	(Component Side)	(Conductor Side)	✻
Q304		B-2	①
Q501	B-1		②
Q502	B-1		②
Q503	B-1		②
Q510	B-1		②
Q511	B-1		②
Q512	B-1		②
Q513		B-4	①
Q514		B-4	①
Q515		B-4	①
Q516		B-3	①
Q517		A-3	①
Q518		A-3	①
Q519		B-3	①
Q520		B-3	①
Q521	B-1		②
Q522	B-1		②
Q523	B-1		②
Q524		B-3	①
Q601		A-4	①
Q602		A-4	①
Q901		B-3	①
Q902		B-3	①
Q903		B-3	①
Q904		A-1	⑯
Q905		A-1	⑯
Q906		A-1	②
Q907	B-2		②
Q908	B-2		②
Q909	B-2		②

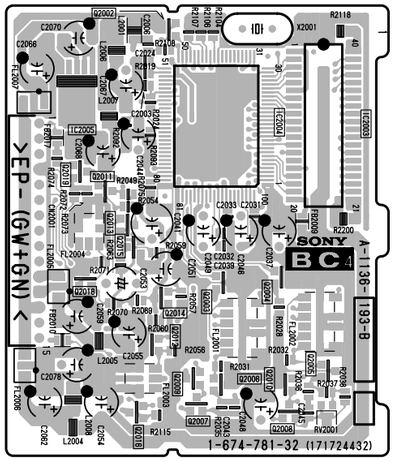
DIODE	(Component Side)	(Conductor Side)	✻
D501		B-3	③
D601	A-2		③

CRYSTAL	(Component Side)	(Conductor Side)
X802	B-3	
X901	A-3	

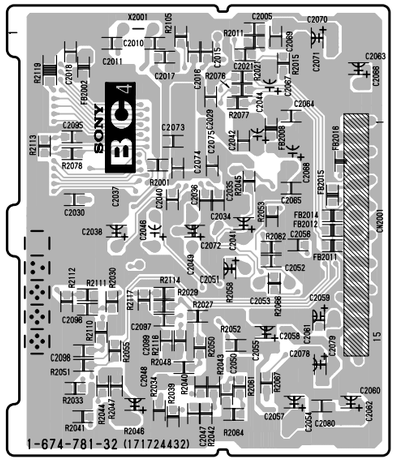
✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

BC4 [3D COMB FILTER]

— BC4 BOARD (COMPONENT SIDE) —



— BC4 BOARD (CODUCTOR SIDE) —



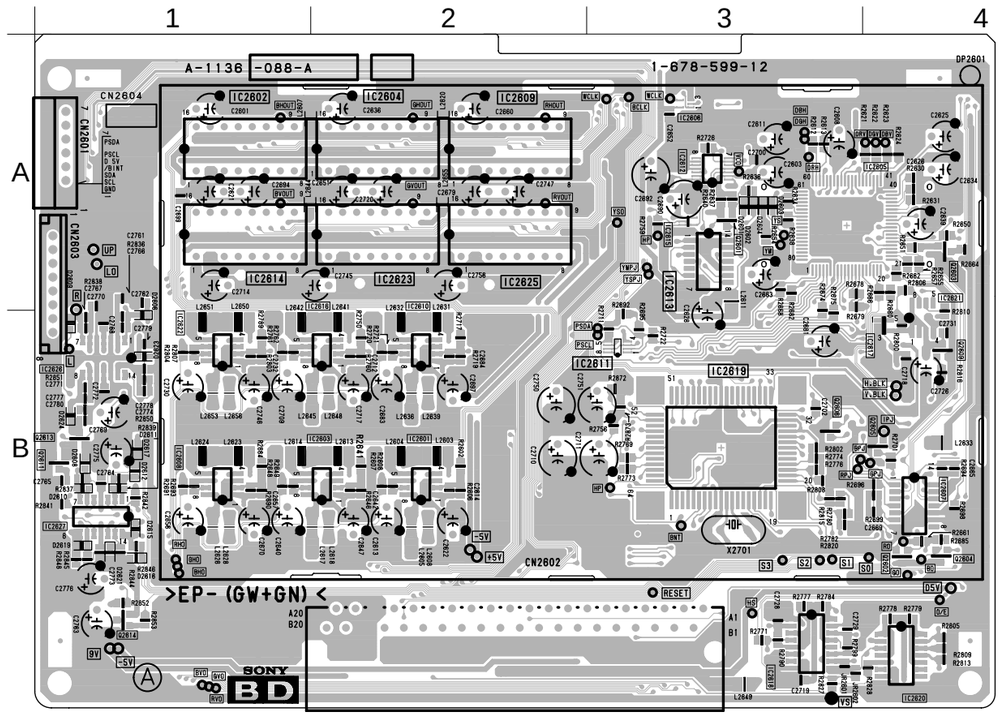
- **BC4 BOARD SEMICONDUCTOR LOCATION**

Ref.	✻
Q2003-Q2016 Q2018, Q2019	②

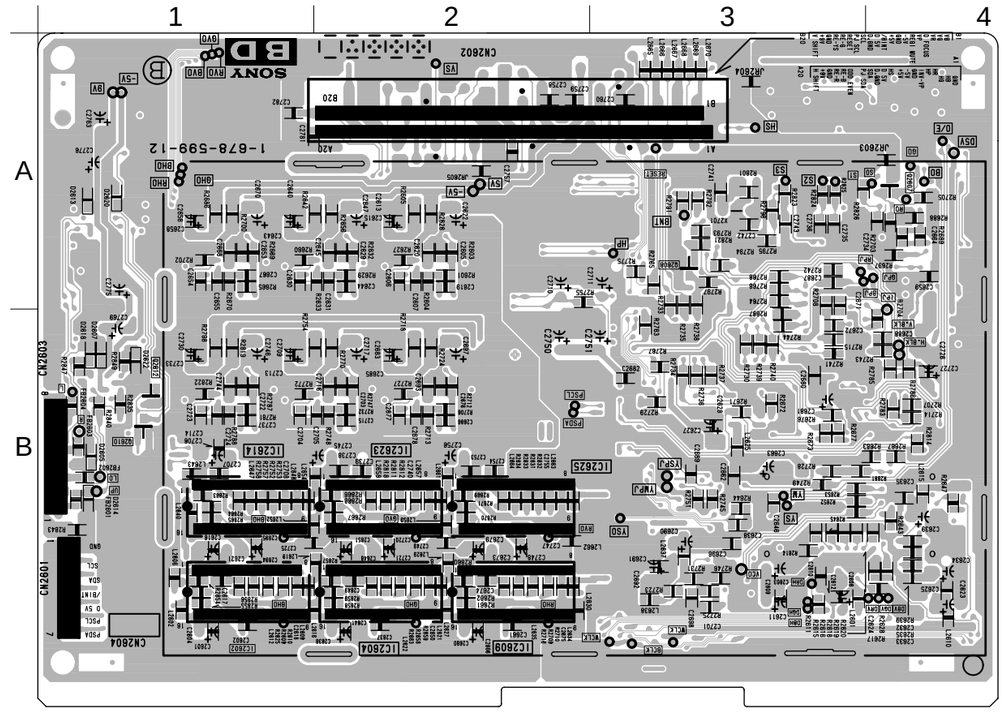
✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

BD [PJED,REGISTER CORR]

— BD BOARD (COMPONENT SIDE) —



— BD BOARD (CODUCTOR SIDE) —



- **BD BOARD SEMICONDUCTOR LOCATION**

IC	(Component Side)	(Conductor Side)
IC2601	B-1	
IC2602	A-1	B-1
IC2603	B-1	
IC2604	A-2	B-2
IC2605	A-4	
IC2606	A-3	
IC2607	B-3	
IC2608	B-1	
IC2609	A-2	B-2
IC2610	B-2	
IC2611	B-3	
IC2612	A-3	
IC2613	A-3	
IC2614	A-1	B-1
IC2615	A-3	
IC2616	B-1	
IC2617	B-4	
IC2618	B-3	
IC2619	B-3	
IC2620	B-4	
IC2621	A-4	
IC2622	B-1	
IC2623	A-1	B-2
IC2625	A-1	B-2
IC2626	B-1	
IC2627	B-1	

TRANSISTOR	(Component Side)	(Conductor Side)	✻
Q2601	A-3		②
Q2602	B-4		②
Q2603	A-4		②
Q2604	B-4		②
Q2605	B-4		②
Q2606	B-3		②
Q2607		A-4	①
Q2608		A-3	①
Q2610		B-1	①
Q2611	B-1		②
Q2612		B-1	①
Q2613	B-1		②
Q2614	B-1		②

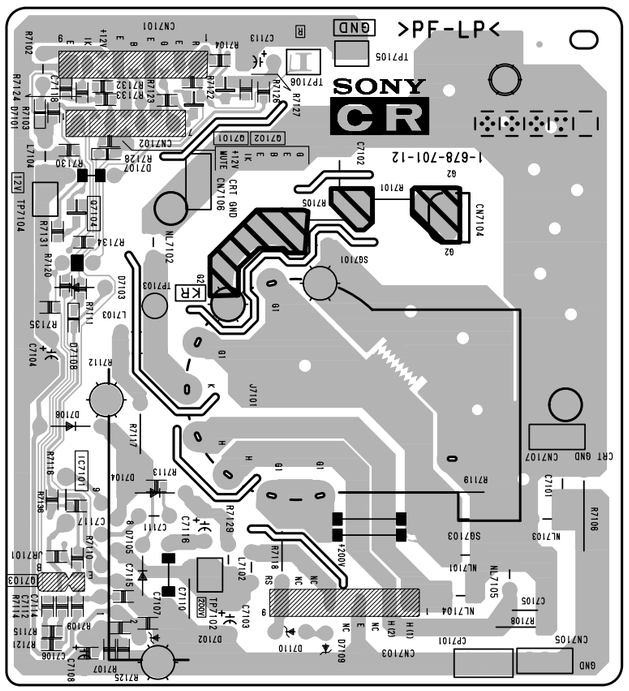
DIODE	(Component Side)	(Conductor Side)	✻
D2601	A-3		③
D2602	A-3		③
D2603	A-3		③
D2604	A-3		③
D2605		B-1	③
D2606	B-1		③
D2607		B-1	③
D2608	B-1		③
D2609	B-1		③
D2610	B-1		③
D2611	B-1		③
D2612	B-1		③
D2613		A-1	③
D2614		B-1	③
D2615	B-1		③
D2616	B-1		③
D2617	B-1		③
D2618		B-1	③
D2619	B-1		③
D2620		A-1	③
D2621	B-1		③
D2622		B-1	③
D2623	B-1		③
D2624	B-1		③

CRYSTAL	(Component Side)	(Conductor Side)
X2701	B-3	

✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

CR [R,CRT DRIVE]

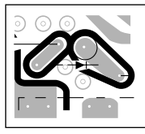
— CR BOARD (CONDUCTOR SIDE) —



- **CR BOARD SEMICONDUCTOR LOCATION**

Ref.	✻
D7108	③
Q7101, 7104	①

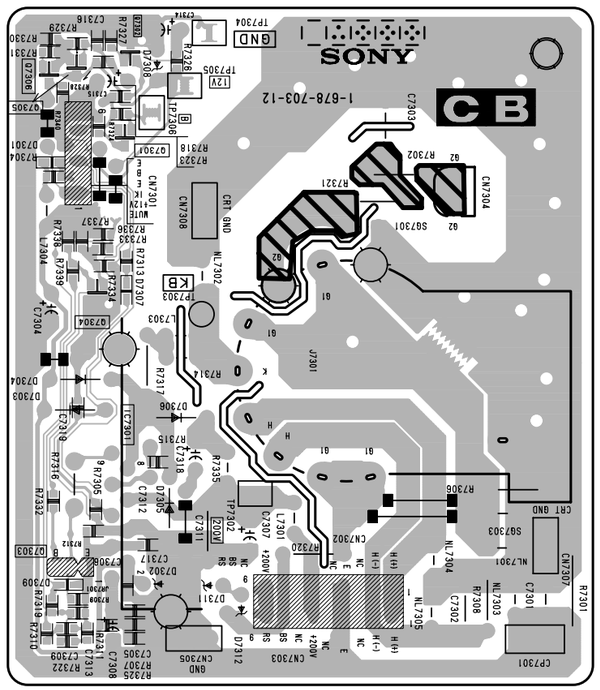
✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

CB [B,CRT DRIVE]

— CB BOARD (CONDUCTOR SIDE) —



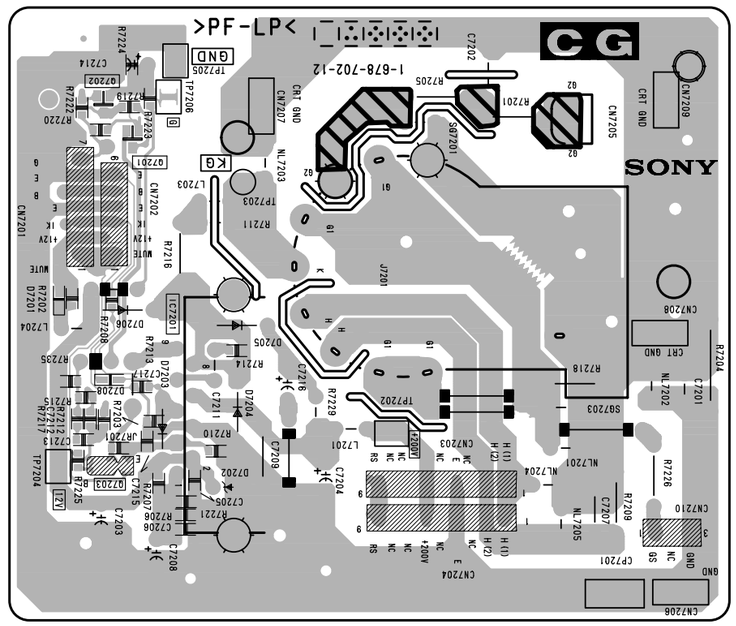
- **CB BOARD SEMICONDUCTOR LOCATION**

Ref.	✻
D7307, 7309	③
Q7301, 7302, 7305, 7306	①

✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

CG [G,CRT DRIVE]

— CG BOARD (CONDUCTOR SIDE) —



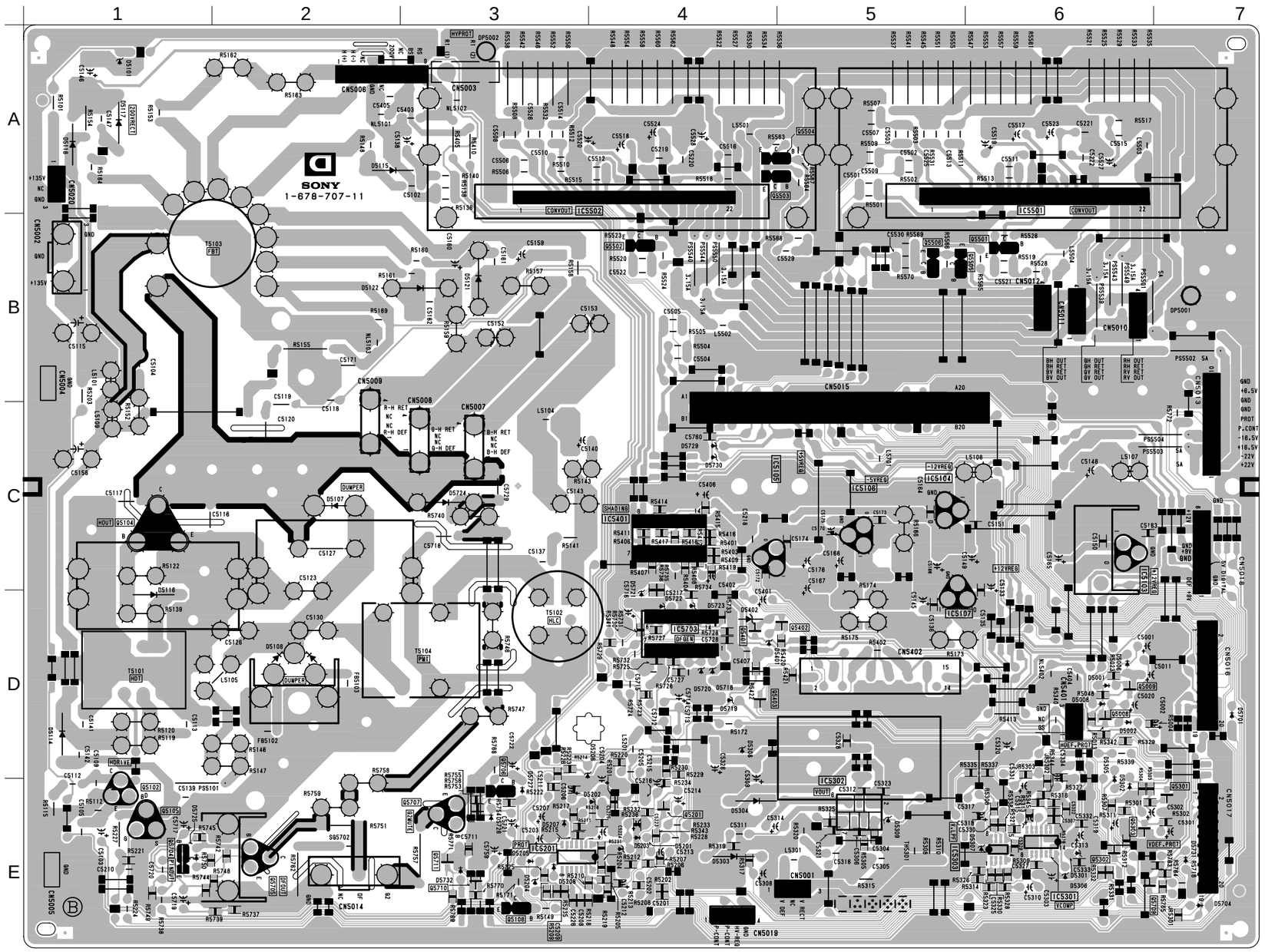
- **CG BOARD SEMICONDUCTOR LOCATION**

Ref.	✻
D7208	③
Q7201, 7202	①

✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

D [H/V DEFLECTION,HV,DY DRIVE]

— D BOARD (CONDUCTOR SIDE) —



• D BOARD SEMICONDUCTOR LOCATION

IC		
IC5103	C-6	
IC5104	C-5	
IC5105	C-4	
IC5106	C-5	
IC5107	D-5	
IC5201	E-3	
IC5301	E-6	
IC5302	E-5	
IC5303	E-6	
IC5401	C-4	
IC5501	A-6	
IC5502	A-3	
IC5703	D-4	

TRANSISTOR		
		*
Q5006	D-6	①
Q5009	D-6	①
Q5102	E-1	–
Q5104	C-1	–
Q5105	E-1	–
Q5106	E-3	–
Q5201	E-4	①
Q5302	E-6	①
Q5303	E-6	①
Q5401	D-4	①
Q5402	D-5	①
Q5403	D-4	①
Q5501	B-6	–
Q5502	B-4	–
Q5503	A-5	–
Q5504	A-5	–
Q5505	B-5	–
Q5506	B-5	–
Q5704	E-1	–
Q5705	E-2	–
Q5706	E-3	–
Q5707	E-3	–
Q5710	E-3	①
Q5711	E-3	①

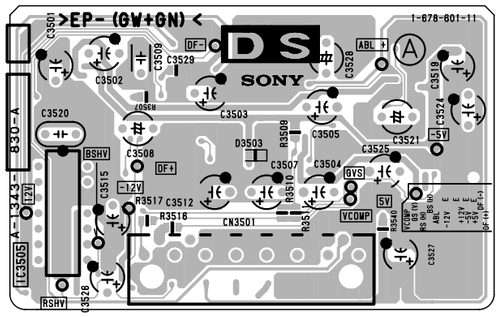
DIODE		
		*
D5001	D-6	–
D5002	D-6	–
D5006	D-6	–
D5008	D-6	–
D5101	A-1	–
D5107	C-2	–
D5108	D-2	–
D5114	D-1	–
D5115	A-2	–
D5116	D-1	–
D5117	A-1	–
D5118	A-1	–
D5121	B-3	–
D5122	B-3	–
D5201	E-4	–
D5202	E-4	–
D5203	E-4	–
D5204	E-3	–
D5205	E-3	–
D5207	E-3	–
D5208	E-3	–
D5301	E-6	–
D5302	E-6	–
D5303	E-4	–
D5304	E-4	–
D5305	E-6	–
D5306	E-6	–
D5307	E-6	–
D5308	D-4	–
D5309	E-5	–
D5401	D-4	–
D5402	D-4	–
D5701	D-7	–
D5704	E-7	–
D5719	D-4	–
D5721	D-4	–
D5724	C-3	–
D5726	E-3	–
D5727	E-3	–
D5732	E-3	–

*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

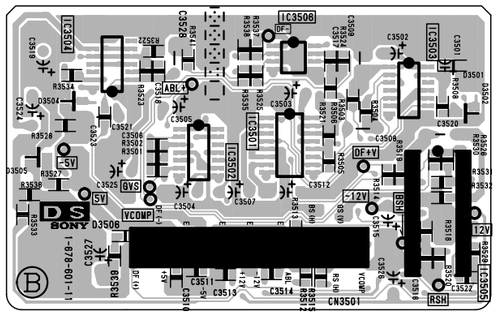
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

DS [SHADING]

— DS BOARD (COMPONENT SIDE) —



— DS BOARD (CONDUCTOR SIDE) —



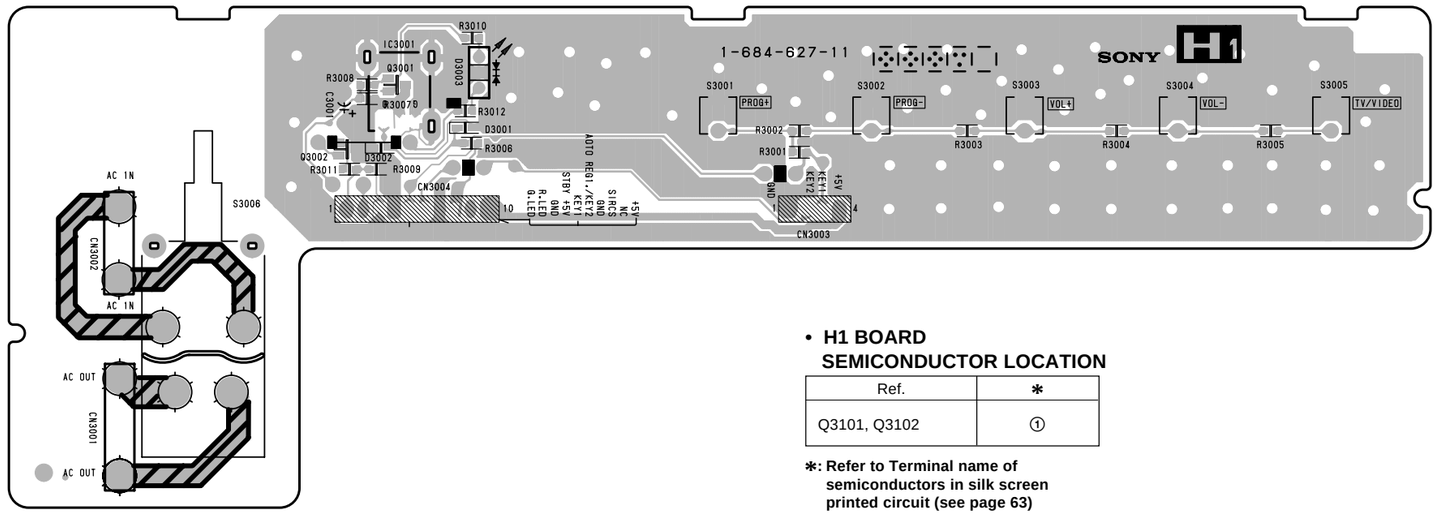
- **DS BOARD SEMICONDUCTOR LOCATION**

Ref.	✱
D3501, D3503	③
D3502	⑩

✱: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

H1 [MAIN SWITCH,USER CONTROL]

— H1 BOARD (CONDUCTOR SIDE) —



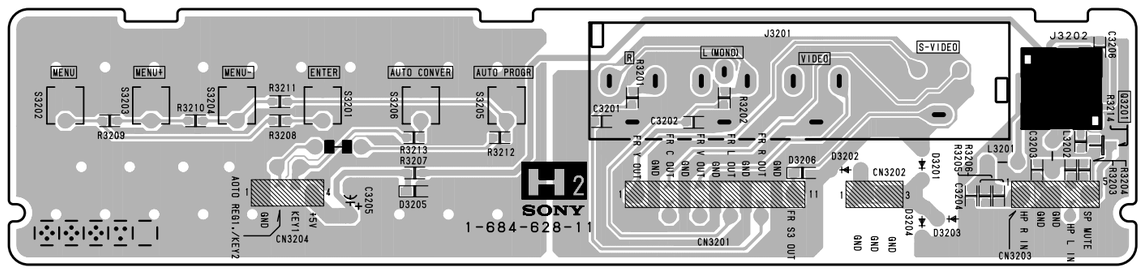
- **H1 BOARD SEMICONDUCTOR LOCATION**

Ref.	✱
Q3101, Q3102	①

✱: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

H2 [HP OUT,AV INPUT,USER CONTROL]

— H2 BOARD (CONDUCTOR SIDE) —



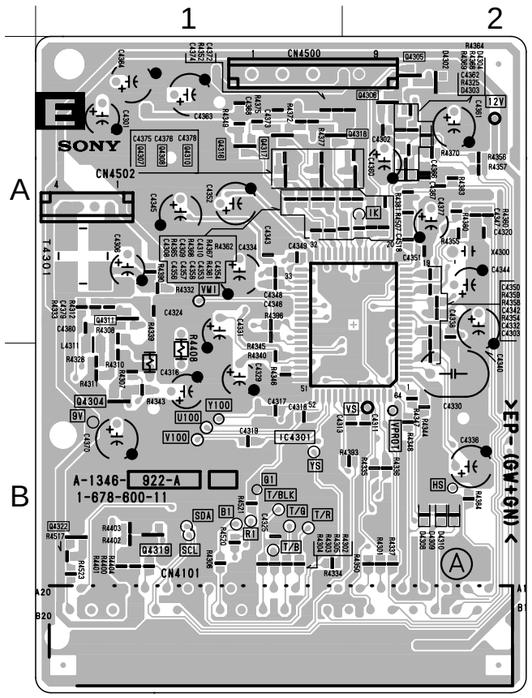
- **H2 BOARD SEMICONDUCTOR LOCATION**

Ref.	✱
D3203	③
Q3201	①

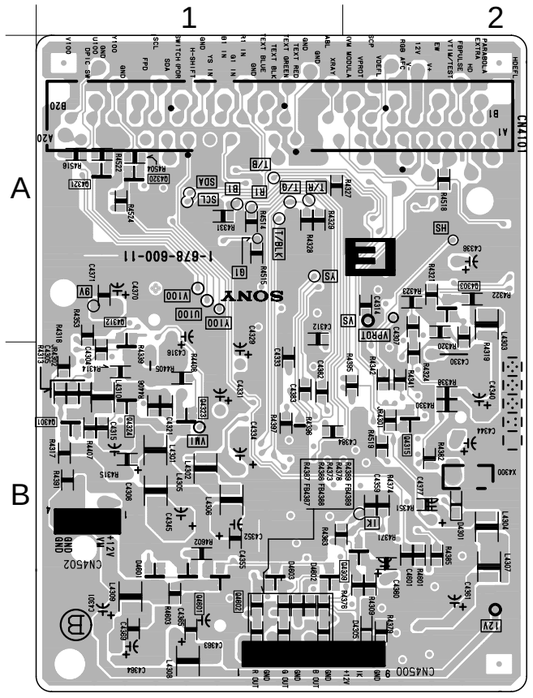
✱: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

E [R/G/B/VM OUT,Y/C/J]

— E BOARD (COMPONENT SIDE) —



— E BOARD (CONDUCTOR SIDE) —



• E BOARD SEMICONDUCTOR LOCATION

IC		
	(Component Side)	(Conductor Side)
IC4301	A-2	

TRANSISTOR			
	(Component Side)	(Conductor Side)	✱
Q4301		B-1	①
Q4303		A-2	①
Q4304	B-1		②
Q4307	A-1		②
Q4308	A-1		②
Q4310	A-2		②
Q4316	A-1		②
Q4317	A-1		②
Q4318	A-1		②
Q4319	B-1		②
Q4320		A-1	①
Q4321		A-1	①
Q4322	B-1		②
Q4323		B-1	①
Q4324		B-1	①
Q4601		B-1	①
Q4602		B-1	①

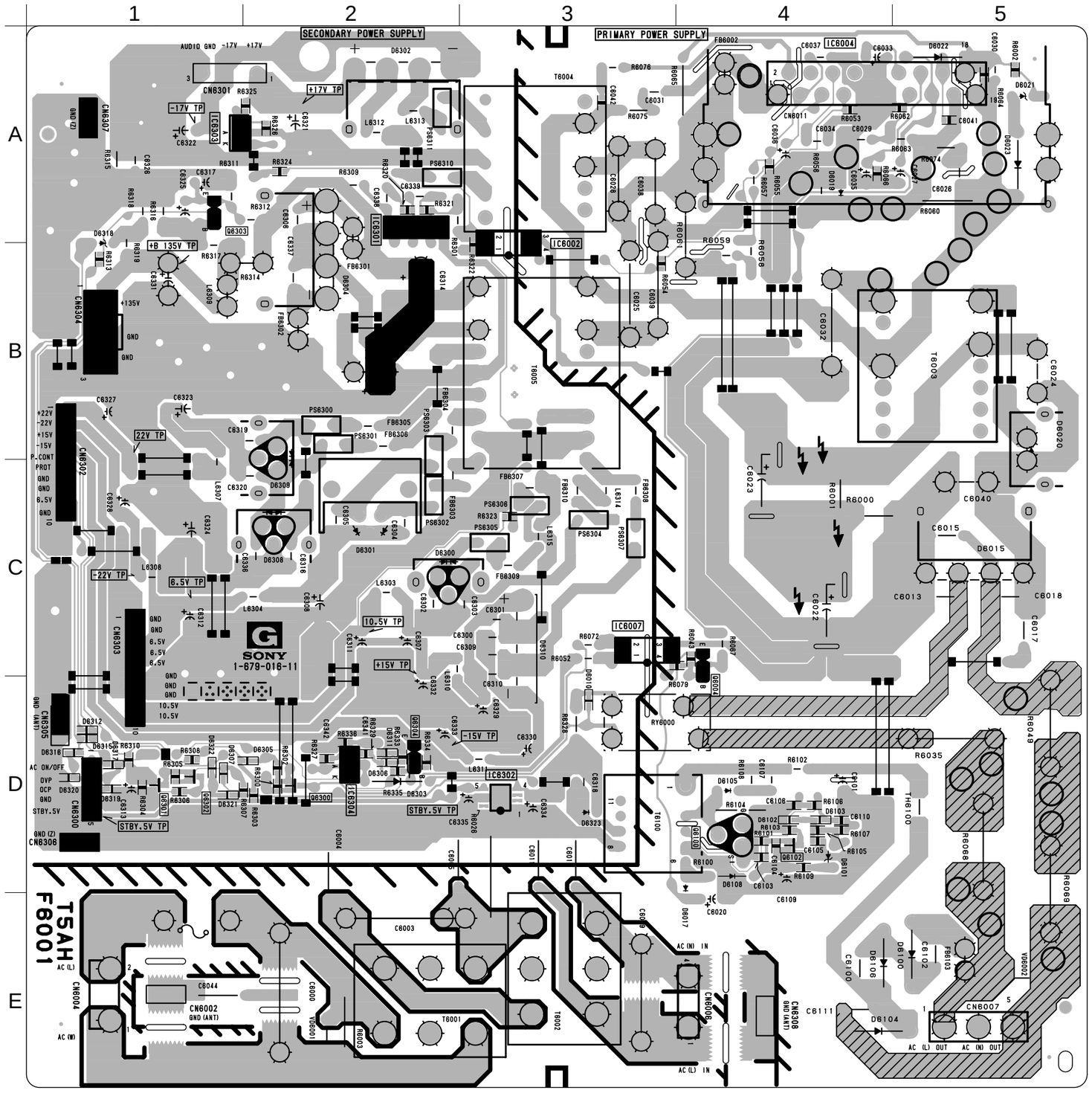
DIODE			
	(Component Side)	(Conductor Side)	✱
D4304	A-2		③
D4305		B-2	③
D4601		B-1	④
D4602		B-1	④
D4603		B-1	④

CRYSTAL		
	(Component Side)	(Conductor Side)
X4300		B-2

✱: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

G [POWER SUPPLY]

— G BOARD (CONDUCTOR SIDE) —



- **G BOARD SEMICONDUCTOR LOCATION**

IC		
IC6002	B-3	
IC6004	A-4	
IC6007	C-3	
IC6301	A-2	
IC6302	D-3	
IC6303	A-1	
IC6304	D-2	

TRANSISTOR		*
Q6004	C-4	–
Q6100	D-4	–
Q6102	C-4	①
Q6300	D-2	①
Q6301	D-1	①
Q6302	D-1	①
Q6303	A-1	–
Q6304	D-2	–

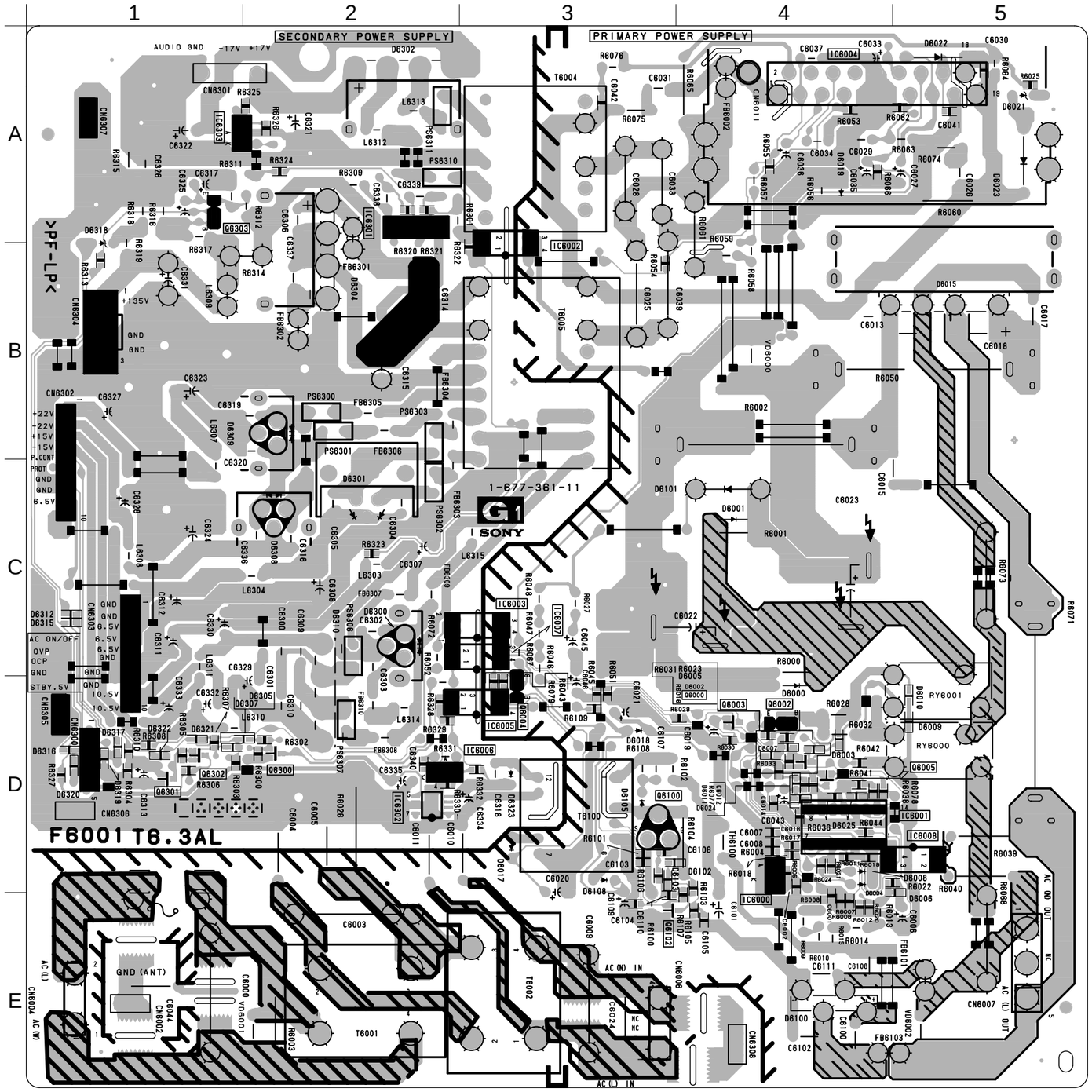
DIODE		*
D6010	D-3	③
D6015	C-4	–
D6017	D-4	–
D6019	A-5	–
D6020	B-5	–
D6021	A-5	–
D6022	A-5	–
D6023	A-5	–
D6100	E-1	–
D6101	D-4	–
D6102	D-4	③
D6103	D-4	–
D6104	E-4	–
D6105	D-4	–
D6106	E-4	–
D6108	D-4	–
D6300	C-2	–
D6301	C-2	–
D6302	A-2	–
D6303	D-2	–
D6304	B-2	–
D6305	D-2	③
D6306	D-2	③
D6307	D-1	③
D6308	C-2	–
D6309	C-2	–
D6310	C-3	–
D6311	D-2	③
D6312	D-1	③
D6315	D-1	③
D6316	D-1	③
D6317	D-1	③
D6318	A-1	–
D6319	D-1	③
D6320	D-1	③
D6323	D-3	–

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

G1 [POWER SUPPLY]

— G1 BOARD (CONDUCTOR SIDE) —



• G1 BOARD SEMICONDUCTOR LOCATION

IC		
IC6000	D-4	
IC6001	D-4	
IC6002	B-3	
IC6003	C-3	
IC6004	A-4	
IC6005	D-3	
IC6006	D-2	
IC6007	C-3	
IC6301	A-2	
IC6302	D-2	
IC6303	A-1	

TRANSISTOR		
		*
Q6000	D-4	①
Q6002	D-4	–
Q6003	D-4	①
Q6004	D-3	–
Q6005	D-5	–
Q6100	D-3	–
Q6102	E-3	①
Q6300	D-2	①
Q6301	D-1	①
Q6302	D-1	①
Q6303	A-1	–

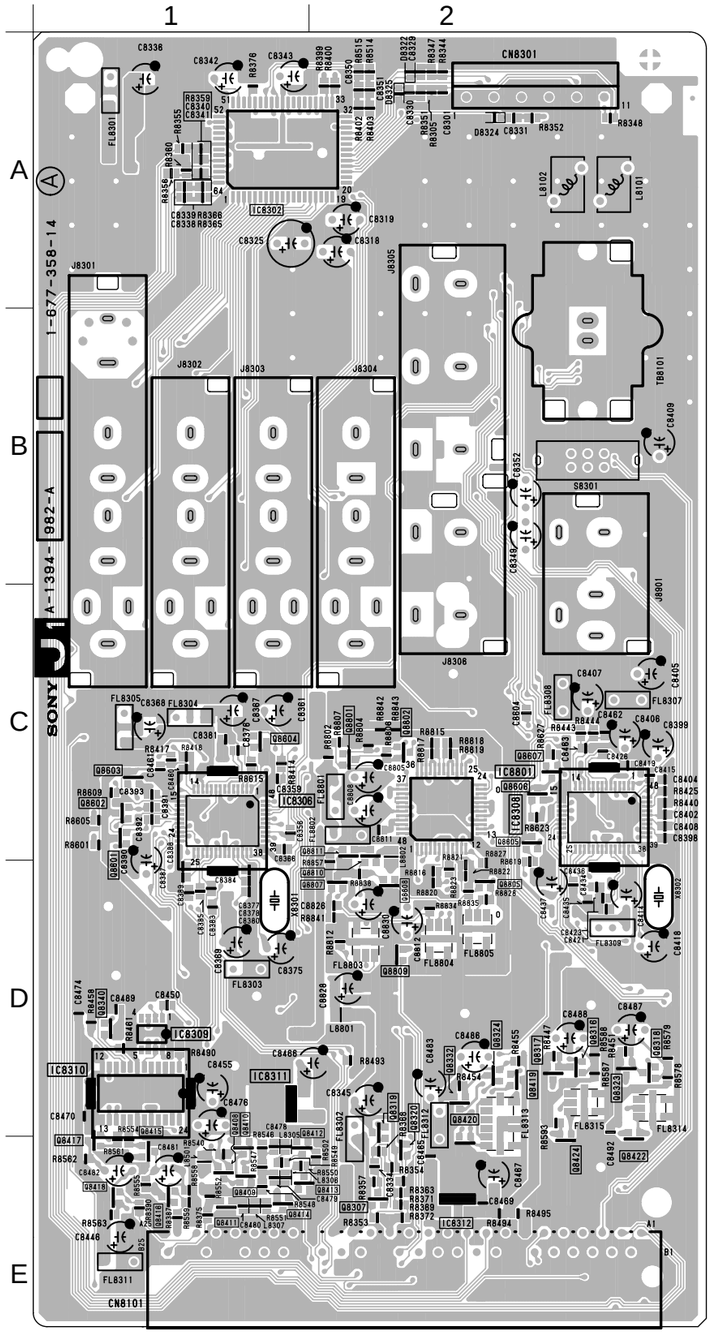
DIODE		
		*
D6000	D-4	–
D6001	C-4	–
D6002	D-4	③
D6003	D-4	③
D6004	D-4	–
D6005	D-4	③
D6006	D-5	③
D6007	D-4	③
D6008	D-4	–
D6009	D-5	③
D6010	D-5	③
D6011	D-4	③
D6015	B-5	–
D6017	D-3	–
D6019	A-4	–
D6021	A-5	–
D6022	A-5	–
D6023	A-5	–
D6024	D-4	③
D6025	D-4	③
D6100	E-4	–
D6101	C-4	–
D6102	D-4	③
D6103	D-3	③
D6105	D-3	–
D6108	D-3	–
D6300	C-2	–
D6301	C-2	–
D6302	A-2	–
D6304	B-2	–
D6305	D-2	③
D6307	D-1	③
D6308	C-1	–
D6309	B-2	–
D6310	C-2	–
D6312	C-1	③
D6315	C-1	③
D6316	D-1	③
D6317	D-1	③
D6318	A-1	–
D6319	D-1	③
D6320	D-1	③
D6323	D-3	–

*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

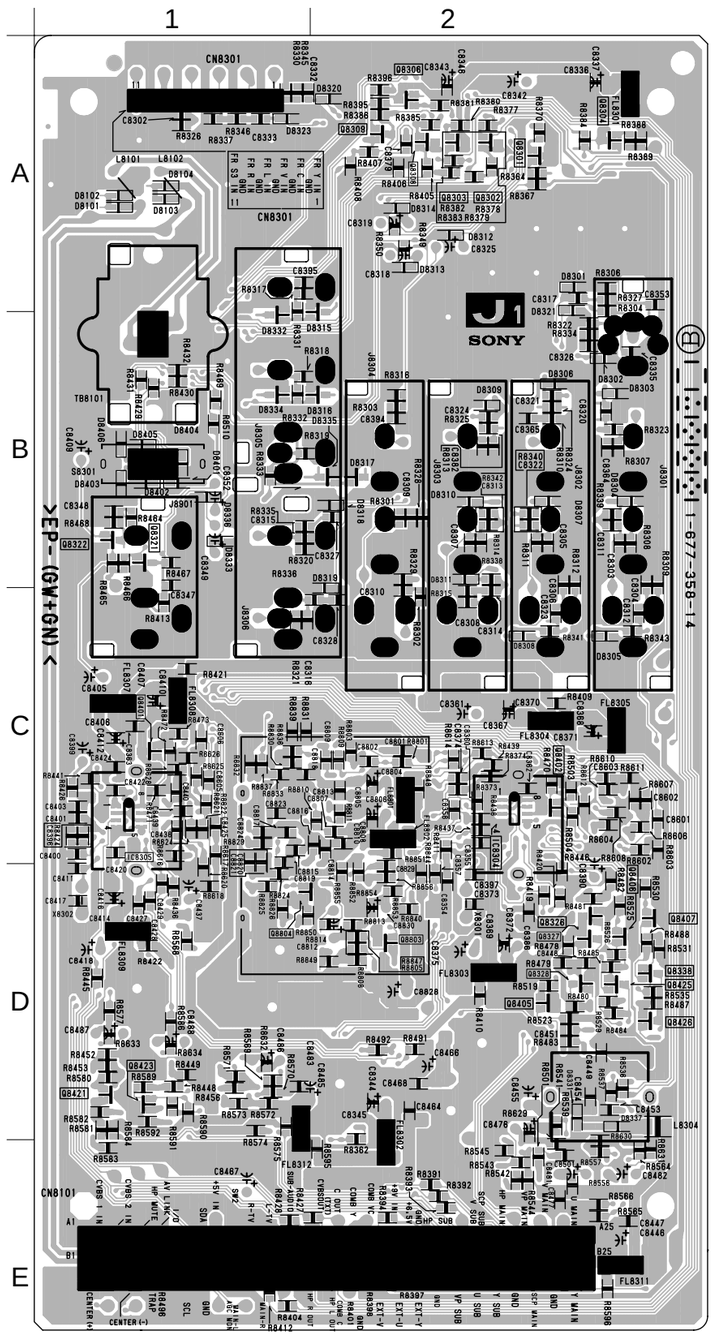
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

J1 [AV SELECT SW,VIDEO PROCESS]

— D BOARD (COMPONENT SIDE) —



— D BOARD (CONDUCTOR SIDE) —



• J1 BOARD SEMICONDUCTOR LOCATION

IC

	(Component Side)	(Conductor Side)
IC8302	A-1	
IC8304		C-2
IC8305		C-1
IC8306	C-1	
IC8308	C-2	
IC8309	D-1	
IC8310	D-1	
IC8311	D-1	
IC8312	E-2	
IC8801	C-2	

TRANSISTOR

	(Component Side)	(Conductor Side)	✱
Q8301		A-2	①
Q8302		A-2	①
Q8303		A-2	①
Q8304		A-2	①
Q8306		A-2	①
Q8307	E-2		②
Q8308		A-2	①
Q8309		A-2	①
Q8316	D-2		②
Q8317	D-2		②
Q8318	D-2		②
Q8319	D-2		②
Q8321		B-1	①
Q8322		B-1	①
Q8323	D-2		②
Q8324	D-2		②
Q8326		D-2	①
Q8327		D-2	①
Q8328		D-2	①
Q8332	D-2		②
Q8338		D-2	①
Q8340	D-1		②
Q8401		C-1	①
Q8402		C-2	①
Q8405		D-2	①
Q8406		D-2	①
Q8407		D-2	①
Q8408		D-2	①
Q8409	E-1		②
Q8410	E-1		②
Q8411	E-1		②
Q8412	E-1		②
Q8413	E-1		②
Q8414	E-1		②
Q8415	E-1		②
Q8416	E-1		–
Q8417	E-1		–
Q8418	E-1		–
Q8419	D-2		–
Q8420	E-2		②
Q8421		D-1	①
Q8422	E-2		②
Q8423		D-1	①
Q8424	E-2		②
Q8425		D-2	①
Q8426		D-2	①
Q8601	C-1		②
Q8602	C-1		②
Q8603	C-1		②
Q8604	C-1		②
Q8605	C-2		②
Q8606	C-2		②
Q8607	C-2		②
Q8801	C-2		②
Q8802	C-2		②
Q8803		D-2	①
Q8804		D-1	①
Q8805	D-2		②
Q8807	D-2		②
Q8808	D-2		②
Q8809	D-2		②
Q8810	C-2		②
Q8811	C-2		②

DIODE

	(Component Side)	(Conductor Side)	✱
D8101		A-1	③
D8102		A-1	③
D8103		A-1	③
D8104		A-1	③
D8301		A-2	③
D8302		B-2	③
D8303		B-2	③
D8304		B-2	③
D8305		C-2	③
D8306		B-2	③
D8307		B-2	③
D8308		C-2	③
D8309		B-2	③
D8310		B-2	③
D8311		B-2	③
D8312		A-2	③
D8313		A-2	③
D8314		A-2	③
D8315		B-2	④
D8316		B-2	④
D8317		B-2	④
D8318		B-2	③
D8319		B-2	③
D8320		A-2	③
D8321		A-2	③
D8322	A-2		③
D8323		A-1	③
D8324	A-2		③
D8325	A-2		③
D8331		D-2	③
D8332		B-1	④
D8333		B-1	③
D8334		B-1	④
D8335		B-2	④
D8336		B-1	③
D8337		D-2	③

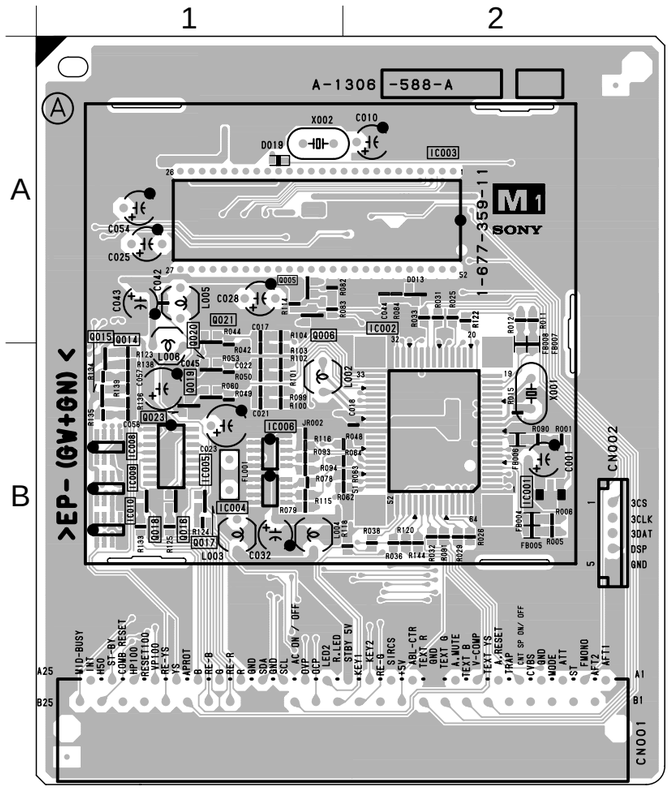
CRYSTAL

	(Component Side)	(Conductor Side)
X8301	D-1	
X8302	D-1	

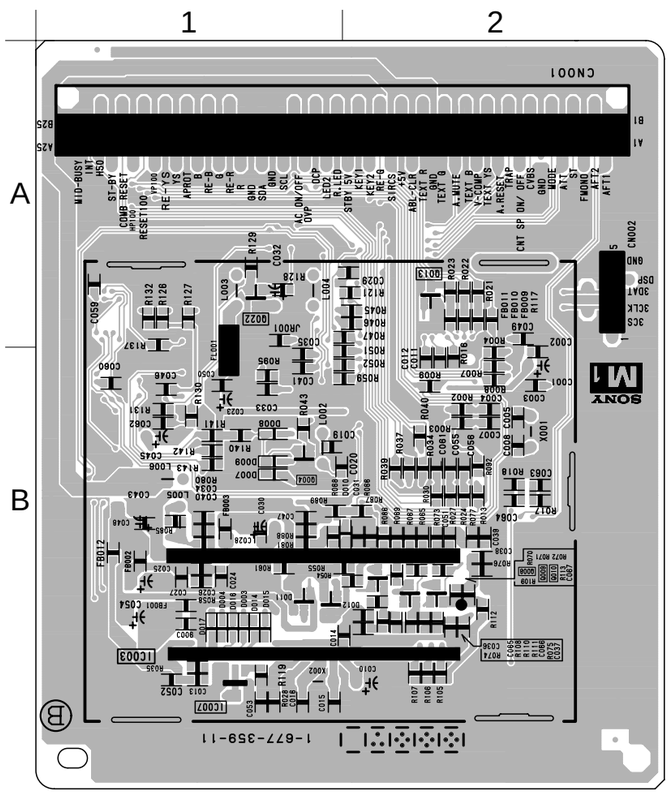
✱: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

M1 [SYSTEM CONTROL]

— M1 BOARD (COMPONENT SIDE) —



— M1 BOARD (CONDUCTOR SIDE) —



• M1 BOARD SEMICONDUCTOR LOCATION

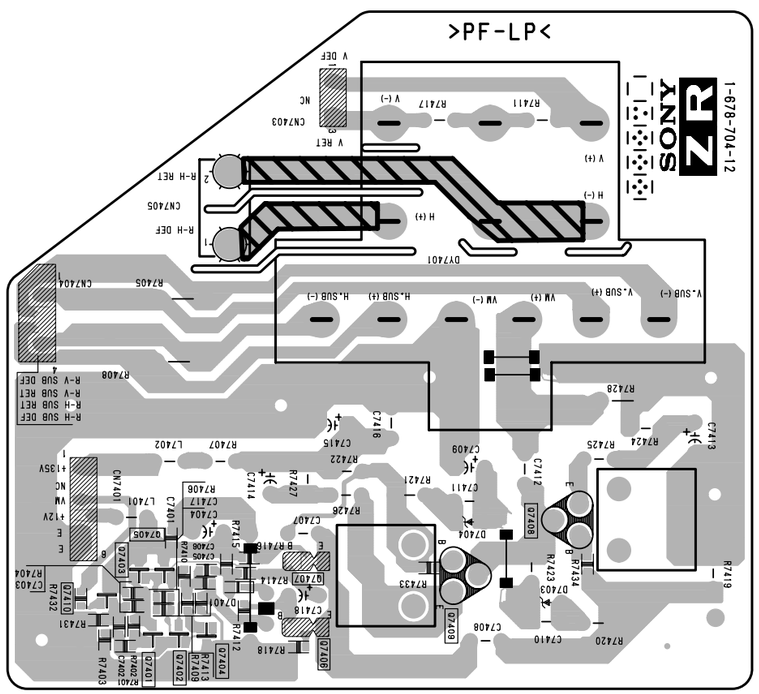
IC			TRANSISTOR				DIODE			
	(Component Side)	(Conductor Side)		(Component Side)	(Conductor Side)	✱		(Component Side)	(Conductor Side)	✱
IC001	B-2		Q004		B-2	①	D003		A-2	③
IC002	B-2		Q005	A-1		②	D004		A-2	③
IC003	A-1	B-1	Q006	A-1		②	D007		A-2	③
IC004	B-1		Q008		B-2	①	D008		A-2	③
IC005	B-1		Q009		B-2	①	D009		A-2	③
IC006	B-1		Q010		B-2	①	D015		A-2	③
IC007		B-1	Q014	B-1		②	D017		A-2	③
IC008	B-1		Q015	B-1		②				
IC009	B-1		Q016	B-1		②				
IC010	B-1		Q017	B-1		②				
			Q018	B-1		②				
			Q019	B-1		②				
			Q020	B-1		②				
			Q021	A-1		②				
			Q022		A-1	①				
			Q023	B-1		②				

CRYSTAL		
	(Component Side)	(Conductor Side)
X001	B-2	
X002	A-1	

✱: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

ZR [DY,VM DRIVE]

— ZR BOARD (CONDUCTOR SIDE) —



- **ZR BOARD SEMICONDUCTOR LOCATION**

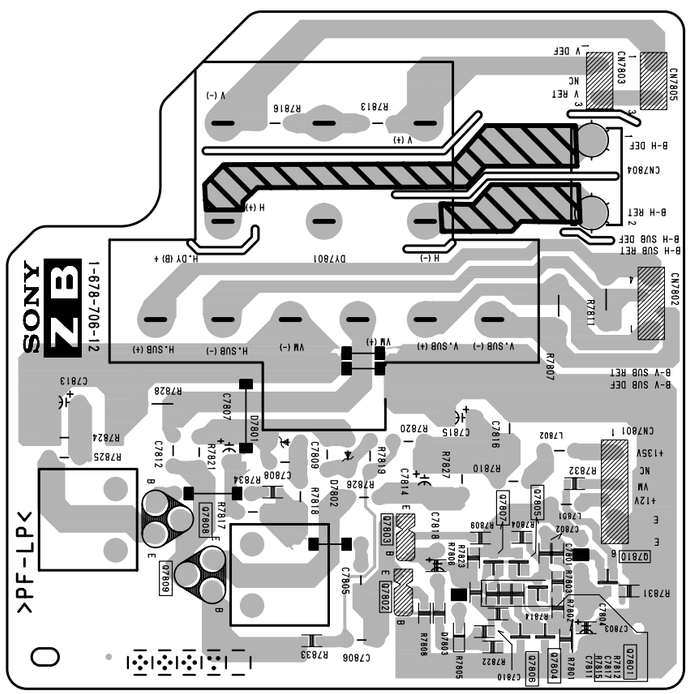
Ref.	✻
D7401	③
Q7401 – 7405, 7410	①

✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

ZB [DY,VM DRIVE]

— ZB BOARD (CONDUCTOR SIDE) —



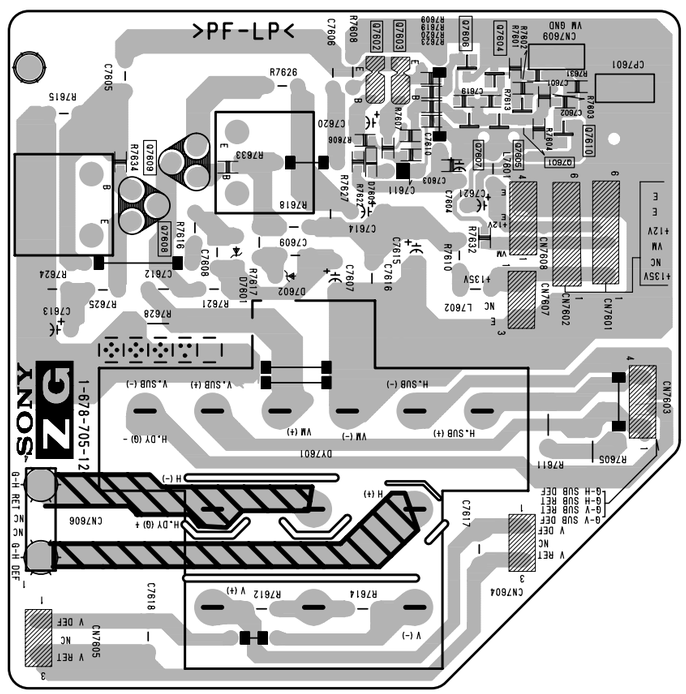
- **ZB BOARD SEMICONDUCTOR LOCATION**

Ref.	✻
D7803	③
Q7801, 7804 – 7807, Q7810	①

✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

ZG [DY,VM DRIVE]

— ZG BOARD (CONDUCTOR SIDE) —



- **ZG BOARD SEMICONDUCTOR LOCATION**

Ref.	✻
D7603	③
Q7601, 7604 – 7607, Q7610	①

✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

• A1(4/4) BOARD WAVEFORMS

① NTSC	② NTSC	③ NTSC
1.4Vp-p (H)	2.0Vp-p (H)	2.1Vp-p (H)

• B3(1/6) BOARD WAVEFORMS

①	②	③	④	⑤	⑥
0.9Vp-p (H)	2.5Vp-p (H)	3.2Vp-p (13.8MHz)	3.4Vp-p (H)	1.1Vp-p (H)	1.1Vp-p (H)

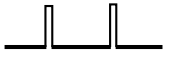
• B3(2/6) BOARD WAVEFORMS

①	②	③
4.8Vp-p (H)	4.8Vp-p (V)	1.0Vp-p (54MHz)

• B3 (3/6) BOARD WAVEFORMS

①	②	③
3.1Vp-p (V)	3.5Vp-p (13.8MHz)	3.4Vp-p (H)
④	⑤	⑥
3.4Vp-p (H)	3.2Vp-p (H)	1.1Vp-p (54MHz)
⑦	⑧	⑨
1.0Vp-p (54MHz)	3.5Vp-p (V)	3.4Vp-p (H)

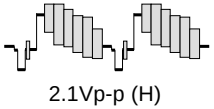
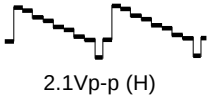
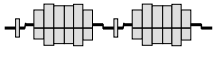
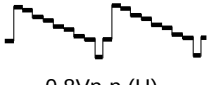
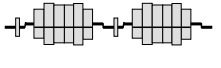
• B3(4/6) BOARD WAVEFORMS

① 2.7Vp-p (23MHz)	② 1.2Vp-p (68.7MHz)	③ 1.9Vp-p (V)	④ 3.4Vp-p (V)	⑤  3.4Vp-p (H)	⑥ 1.1Vp-p (54MHZ)	⑦ 3.4Vp-p (H)
⑧ 3.4Vp-p (V)	⑨ 1.4Vp-p (54MHZ)	⑩ 1.5Vp-p (17.26MHz)				

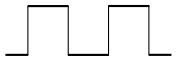
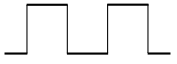
• B3(6/6) BOARD WAVEFORMS

① 1.1Vp-p (H)	② 1.1Vp-p (H)	③ 1.1Vp-p (H)	④ 1.0Vp-p (54MHz)	⑤ 3.2Vp-p (20MHz)	⑥ 5.0Vp-p (V)	⑦ 3.2Vp-p (20MHz)
⑧ 3.4Vp-p (23MHz)	⑨ 4.6Vp-p (36MHz)					

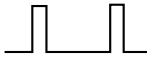
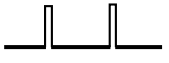
• BC4 BOARD WAVEFORMS

① 4.5Vp-p (20MHz)	② NTSC  2.1Vp-p (H)	③ NTSC  2.1Vp-p (H)	④ NTSC  1.0Vp-p (H)	⑤ NTSC 0.4Vp-p (V)	⑥ NTSC  0.8Vp-p (H)	⑦ NTSC  0.7Vp-p (H)

• **BD (1/5) BOARD WAVEFORMS**

①	②	③	④
			
4.5Vp-p (8MHz)	5.1Vp-p (500kHz)	4.6Vp-p (V)	4.8Vp-p (H)

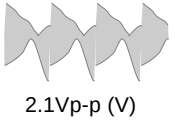
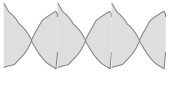
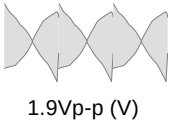
• **BD (2/5) BOARD WAVEFORMS**

①	②	③	④
4.6Vp-p (V)	4.8Vp-p (H)	4.9Vp-p (V)	5.5Vp-p (16MHz)
⑤	⑥	⑦	⑧
			
5.1Vp-p (H)	4.5Vp-p (V)	3.5Vp-p (12MHz)	6.6Vp-p (32MHz)

• **BD (3/5) BOARD WAVEFORMS**

①	②	③
1.3Vp-p (V)	0.9Vp-p (V)	1.0Vp-p (V)

• **BD (4/5) BOARD WAVEFORMS**

①	②	③
		
2.1Vp-p (V)	1.4Vp-p (V)	1.9Vp-p (V)

• **CR BOARD WAVEFORMS**

①
4.8 Vp-p

②
86 Vp-p (H)

③
88 Vp-p (H)

• **CG BOARD WAVEFORMS**

①
4.7 Vp-p (H)

②
114 Vp-p (H)

③
114 Vp-p (H)

• **CB BOARD WAVEFORMS**

①
4.6 Vp-p (H)

②
126 Vp-p (H)

③
128 Vp-p (H)

• **DS BOARD WAVEFORMS**

①
1.2Vp-p (V)

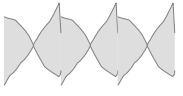
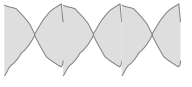
②
1.5Vp-p (V)

③
1.7Vp-p (V)

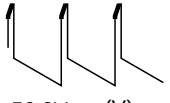
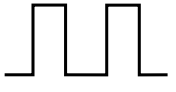
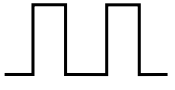
• D(1/4) BOARD WAVEFORMS

①	②
1.5Vp-p (V)	1.7Vp-p (V)

• D(2/4) BOARD WAVEFORMS

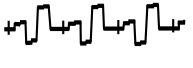
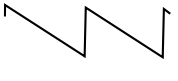
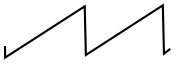
①	②	③	④	⑤	⑥
					
22.8Vp-p (V)	17.8Vp-p (V)	38.3Vp-p (V)	31.3Vp-p (V)	22.3Vp-p (V)	22.3Vp-p (V)

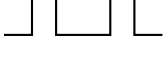
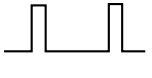
• D(3/4) BOARD WAVEFORMS

①	②	③	④	⑤	⑥	⑦
						
1.0Vp-p (V)	56.0Vp-p (V)	0.8Vp-p (V)	12.5Vp-p (H)	5.4Vp-p (H)	221.5Vp-p (H)	9.0Vp-p (H)

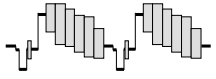
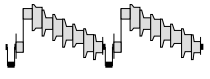
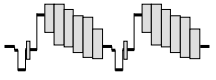
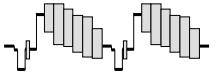
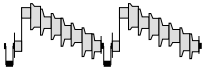
⑧
1245Vp-p (H)

• E BOARD WAVEFORMS

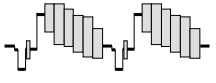
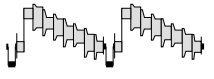
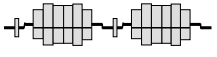
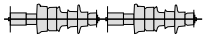
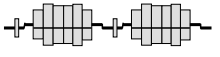
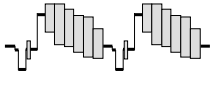
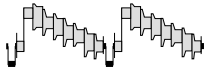
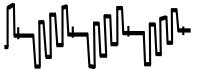
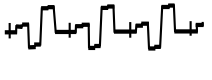
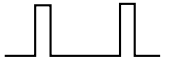
①	②	③	④	⑤	⑥	⑦
						
0.5Vp-p (H)	0.6Vp-p (H)	0.6Vp-p (H)	5.0Vp-p (H)	4.9Vp-p (V)	1.5Vp-p (V)	1.5Vp-p (V)

⑧	⑨	⑩	⑪	⑫	⑬
					
0.1Vp-p (503.5kHz)	5.7Vp-p (H)	2.3Vp-p (H)	2.3Vp-p (H)	2.2Vp-p (H)	2.3Vp-p (H)

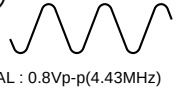
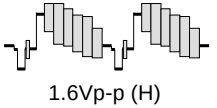
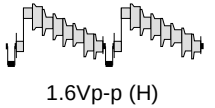
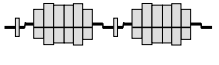
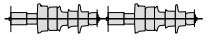
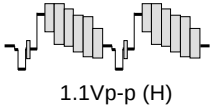
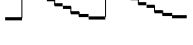
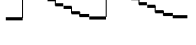
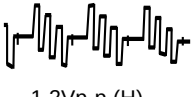
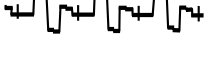
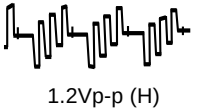
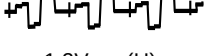
• J1(1/3) BOARD WAVEFORMS

① PAL/NTSC	① SECAM	② PAL/NTSC	② SECAM	③ PAL/NTSC	③ SECAM
					
2.1Vp-p (H)	2.2Vp-p (H)	2.1Vp-p (H)	2.2Vp-p (H)	1.0Vp-p (V)	1.0Vp-p (V)

• J1(2/3) BOARD WAVEFORMS

①	② PAL/NTSC	② SECAM	③ PAL	③ SECAM	④ PAL/NTSC	⑤ NTSC
						
0.3Vp-p (16.2MHz)	1.1Vp-p (H)	1.2Vp-p (H)	0.6Vp-p (H)	0.4Vp-p (V)	0.8Vp-p (H)	0.7Vp-p (H)
⑥	⑦	⑦	⑧	⑨	⑩	⑪
						
1.0Vp-p (H)	2.1Vp-p (H)	2.1Vp-p (H)	0.8Vp-p (H)	1.1Vp-p (H)	1.1Vp-p (H)	5.1Vp-p (H)
⑫						
5.0Vp-p (V)						

• J1(3/3) BOARD WAVEFORMS

①	② PAL	② SECAM	③ PAL	③ SECAM	④ PAL/NTSC	⑤ PAL/NTSC	⑤ SECAM
							
PAL : 0.8Vp-p(4.43MHz) SECAM : 0.8Vp-p(4.43MHz) NTSC : 0.9Vp-p(3.58MHz)	1.6Vp-p (H)	1.6Vp-p (H)	1.3Vp-p (H)	1.0Vp-p (V)	1.6Vp-p (H)	1.1Vp-p (H)	1.6Vp-p (H)
⑥	⑦	⑧	⑨	⑩	⑪	⑫	
							
0.7Vp-p (H)	0.7Vp-p (H)	1.2Vp-p (H)	1.0Vp-p (H)	1.3Vp-p (H)	1.2Vp-p (H)	1.2Vp-p (H)	

• **M1(1/2) BOARD WAVEFORMS**

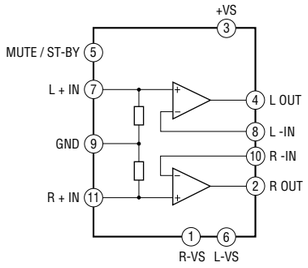
①	②	③
4.8Vp-p (H)	4.9Vp-p (V)	2.3Vp-p (20MHz)

• **M1(2/2) BOARD WAVEFORMS**

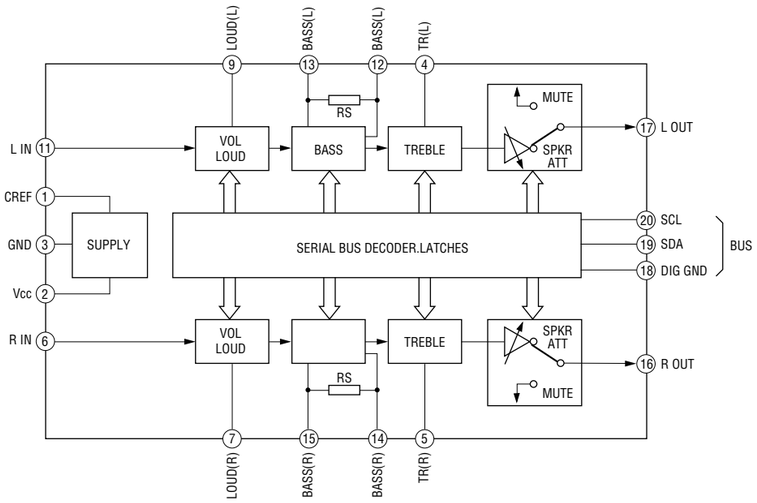
①	②	③	④ PAL/NTSC	④ SECAM
4.6Vp-p (V)	4.1Vp-p (H)	3.4Vp-p (6MHz)	1.2Vp-p (H)	1.2Vp-p (V)

6-7. IC BLOCK DIAGRAMS

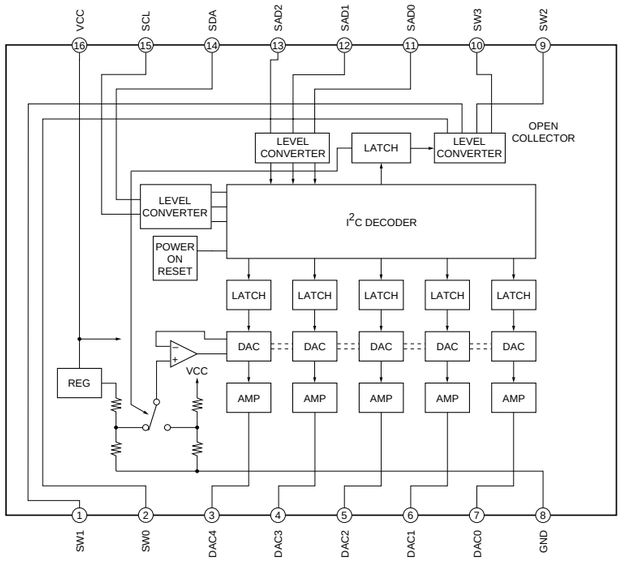
- **A1 (1/4) BOARD : IC1101 TDA7265**



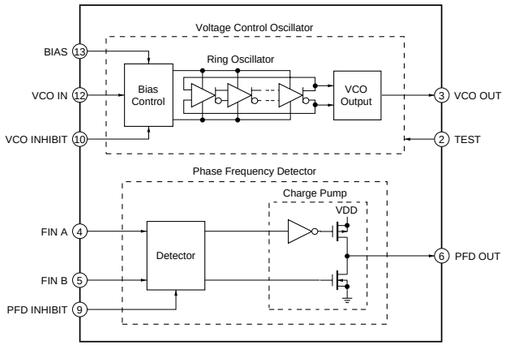
- **A1 (1/4) BOARD : IC1201 TDA7315D013TR**



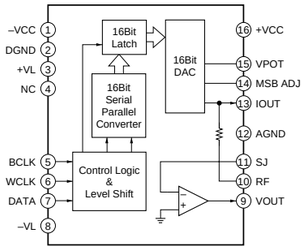
- **B3 (2/5) BOARD IC604**
  CXA1875AM



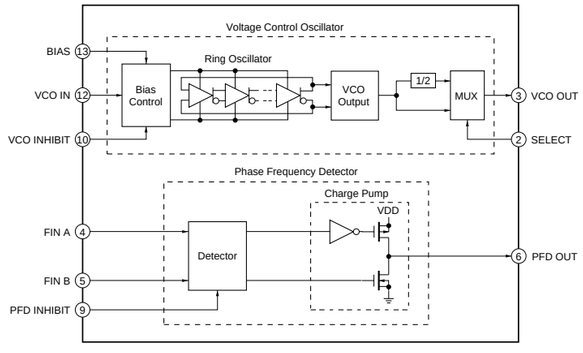
- **B3 (1/6) BOARD : IC504 TLC2933IPWR**



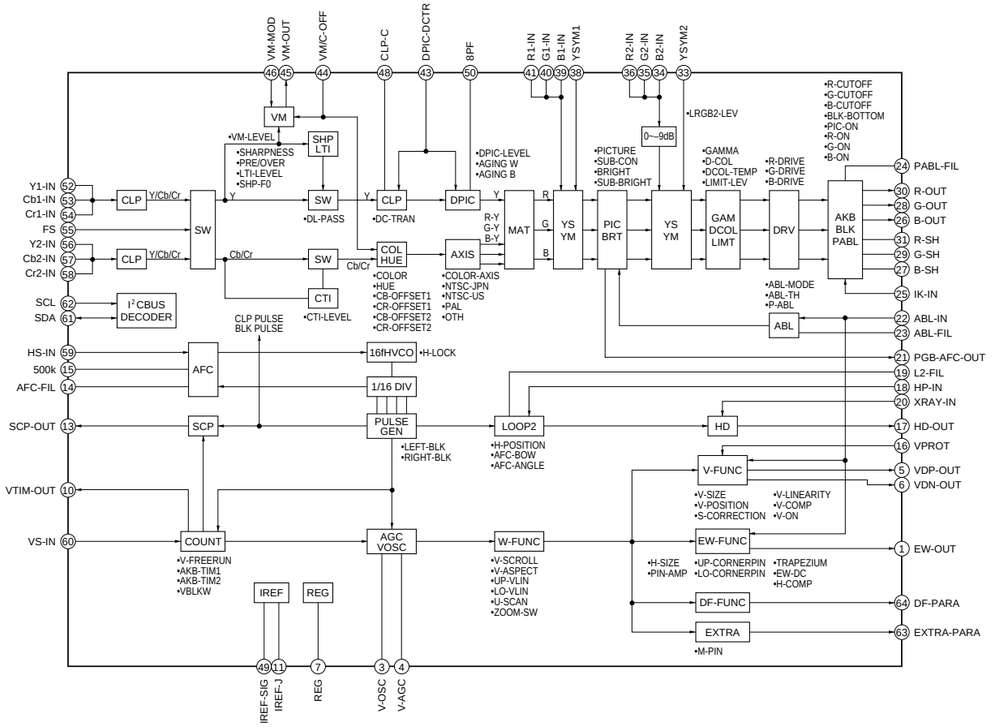
- **BD (3/5) BOARD : IC2602, 2604, 2609,**
- **BD (4/5) BOARD : IC2614, 2623, 2625**
  PCM56P/5



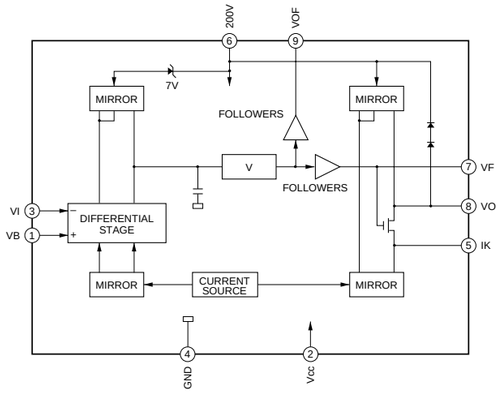
- **B3 (3/6) BOARD : IC603**
- **B3 (6/6) BOARD : IC313**
  TLC2932IPW



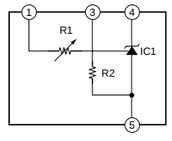
- **E BOARD : IC4301 CXA2100AQ**



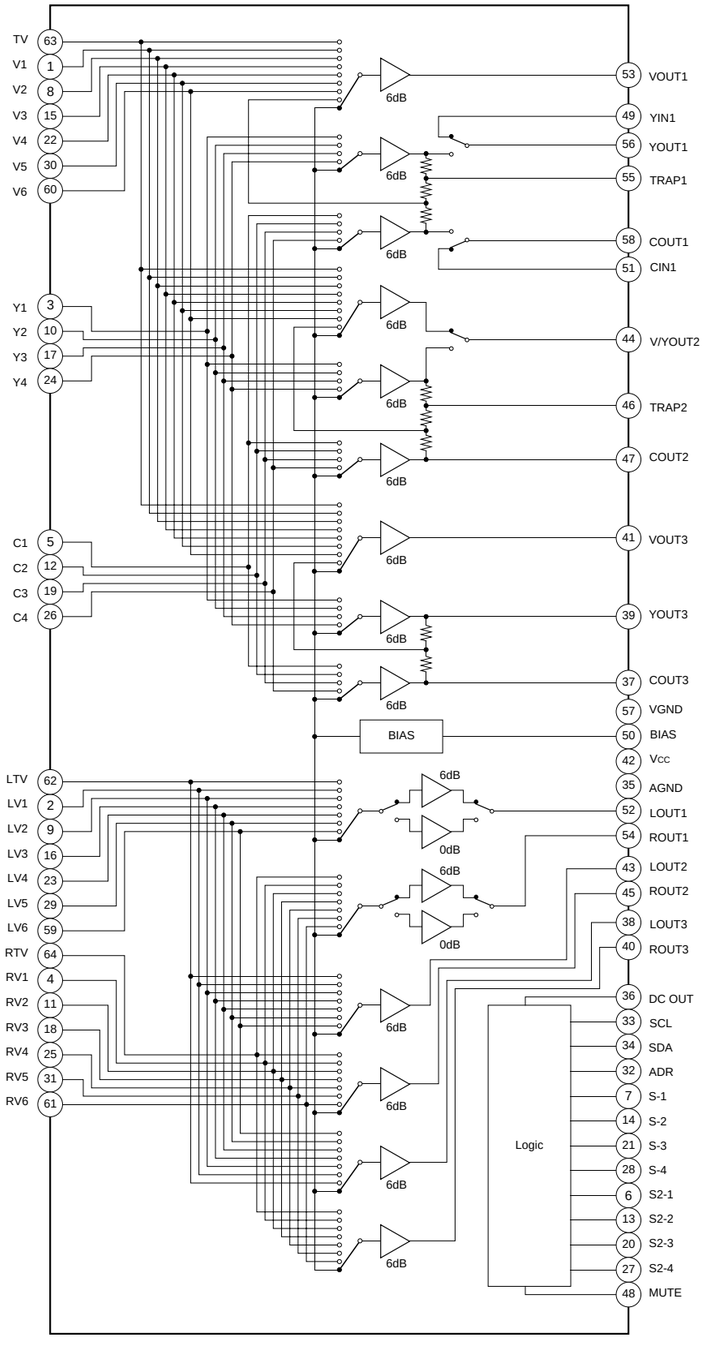
- **CR BOARD : IC7101**
- **CG BOARD : IC7201**
- **CB BOARD : IC7301**
  TDA6111Q



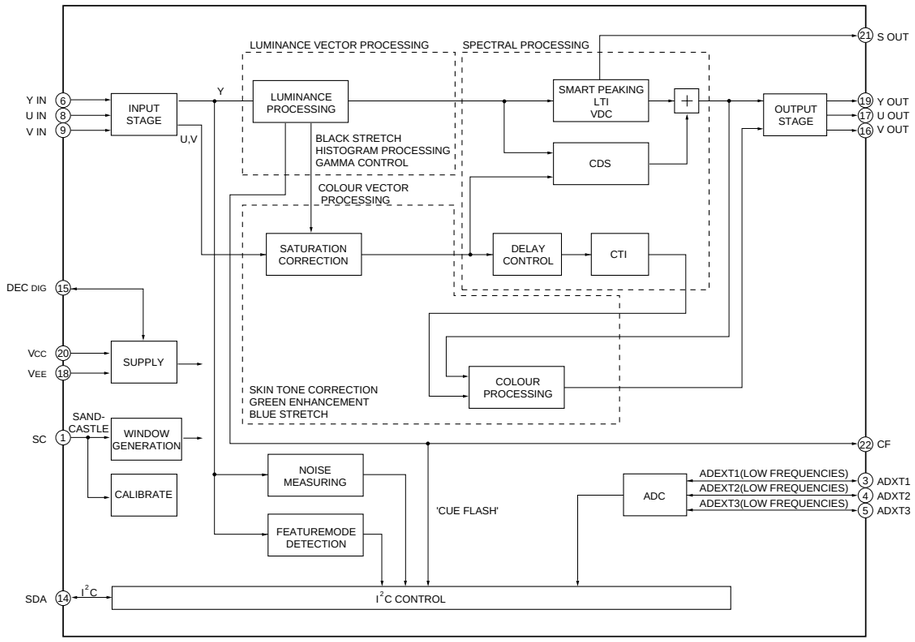
- **G, G1 BOARD IC6301**
  DM-58



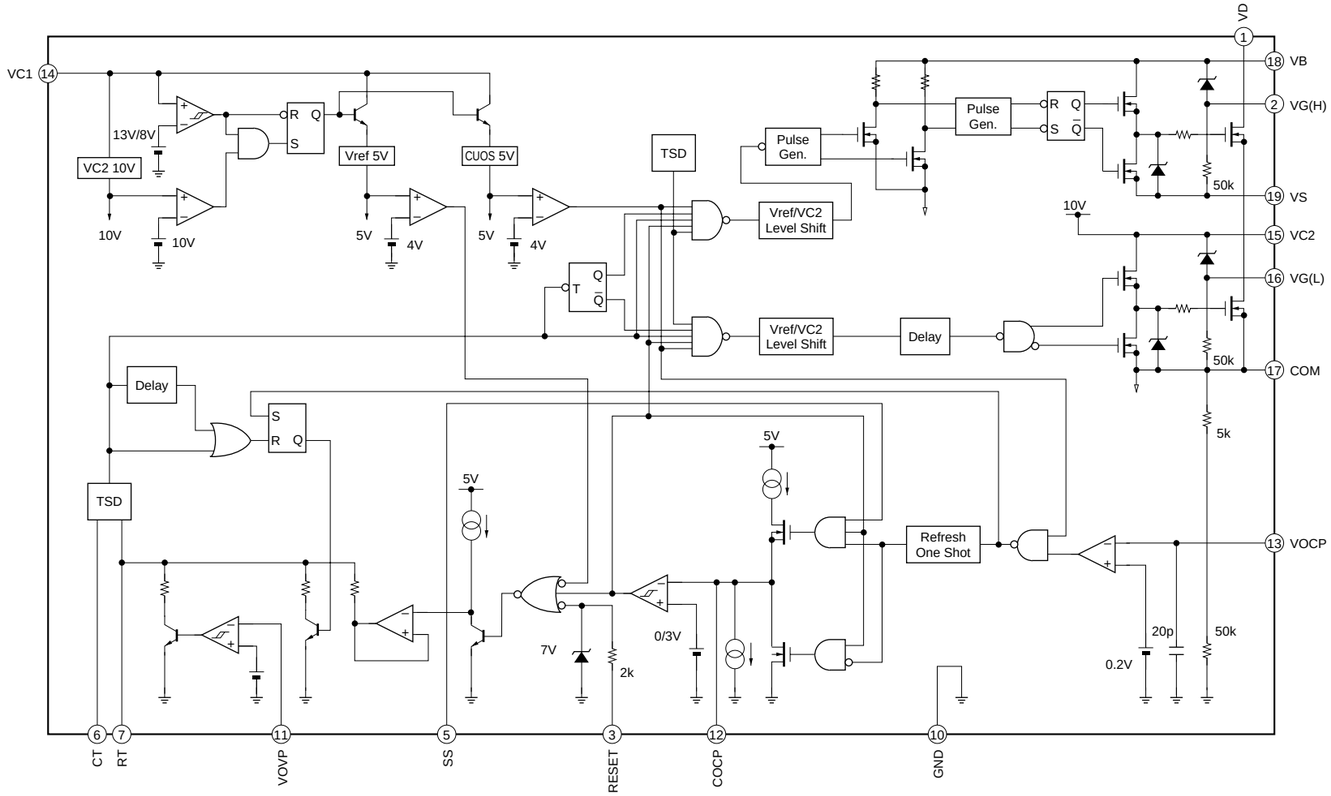
- **J1(1/3) BOARD : IC8302 CXA2069Q**



- **J1(3/3) BOARD : IC8310 TDA9178T/N1.118**

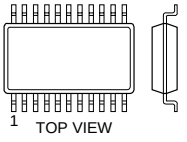


- **G(1/2) BOARD : IC6004 MCR5152**
- **G1(1/2) BOARD : IC6004 MCR5152**



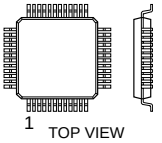
6-8. SEMICONDUCTORS

CA0007AM
LM339NS
MC74HC74AFELHC
MM74HC32SJK
NJM2058M-TE2
SN74HC74ANS
SN74HC74ANSR
TLC2932IPWR
TLC2932IPW-E20
TLC2933IPWR-12



14pin SOP

CM0006CF



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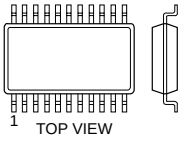

16pin SOP

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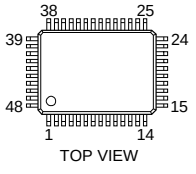

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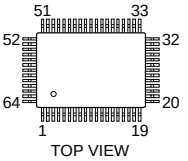

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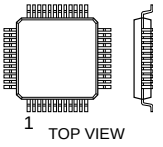

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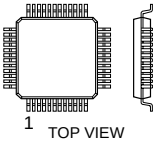

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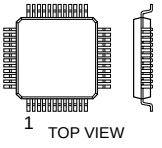

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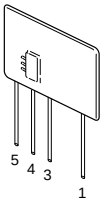

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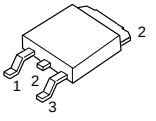

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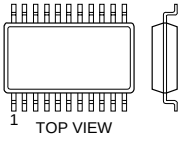

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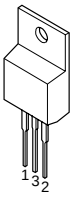

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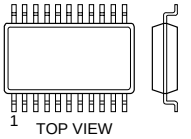

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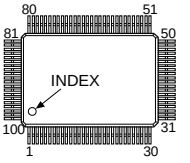

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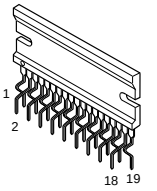

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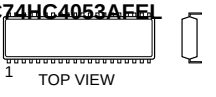

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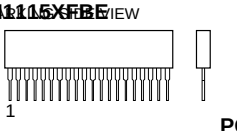

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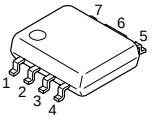

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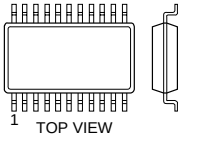

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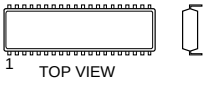

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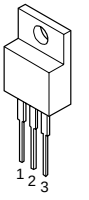

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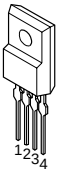

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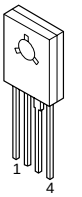

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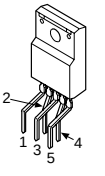

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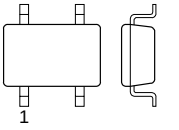

5pin CHIP

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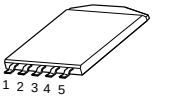

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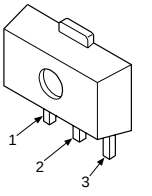

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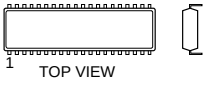

14pin SOP

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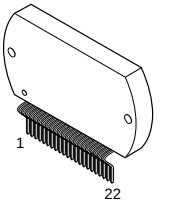

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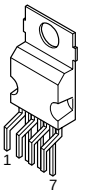

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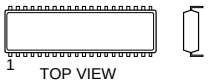

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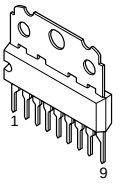

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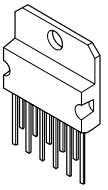

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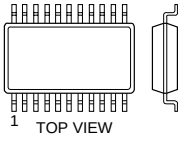

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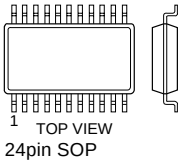

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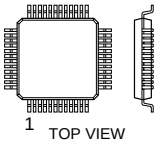

64pin QFP

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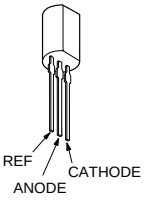

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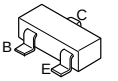

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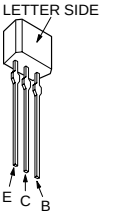

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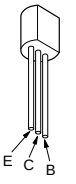

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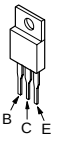

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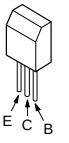

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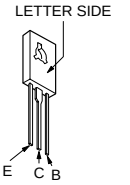

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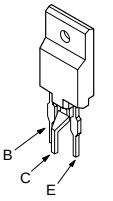

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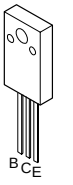

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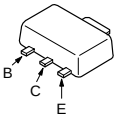

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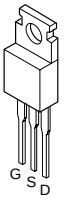

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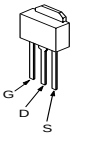

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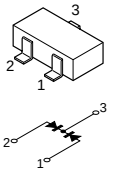

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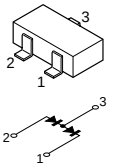

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MA111-TX
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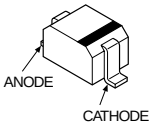
UDZS-TE17-12B
UDZS-TE17-15B
UDZSTE-1724B
UDZSTE-173.7B
UDZSTE-173.9B
UDZSTE-179.1B
1SS355TE-17



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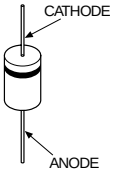
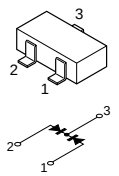
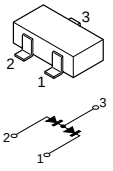
D1NS6-TA2
EGP20G
EL1Z
EL1Z-V1
ERA22-08
ERA22-08TP3
GP08D
RGP02-20EL-6394
UF4005PKG23
1SS83
1SS83TD



DAN202K
DAN202K-T-146



DAP202K
DA204K
DA204K-T-146



DTZ9.1
MA111-(K8).SO
MA111-TX
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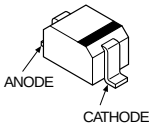
UDZS-TE17-12B
UDZS-TE17-15B
UDZSTE-1724B
UDZSTE-173.7B
UDZSTE-173.9B
UDZSTE-179.1B
1SS355TE-17



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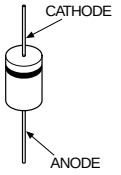
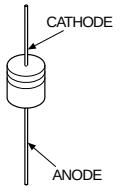
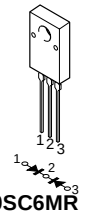
D1NS6-TA2
EGP20G
EL1Z
EL1Z-V1
ERA22-08
ERA22-08TP3
GP08D
RGP02-20EL-6394
UF4005PKG23
1SS83
1SS83TD



D1N20R
D1N20R-TA2
D1NL40-TA2
D1NS4
MTZJ-13
MTZJ-13B
MM3Z5V1ST1
MM3Z5V6ST1
MM3Z6V2ST1
MM3Z8V2ST1
RD10ESB2
RD13ES-B2
RD15ES-B1
RD18ES-B2
RD2.2ES-B2
RD36ES-B2
RD5.1ESB2
RD7.5ES-B2
1SS133T-77



D10SC4M
D10SC4M-F
D10SC6M-4012



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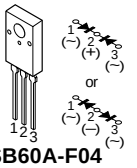
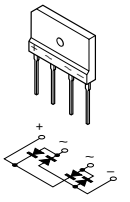
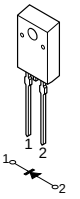


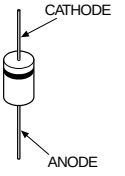
D2SB60A-F04
D4SB60L
D4SBL20U
D4SBS4
D4SBS4-F
D6SB60L
RBA-406B
RBV-406B



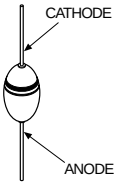
D5L60



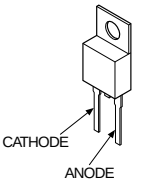
ERC04-06SE



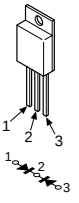
ERC38-06



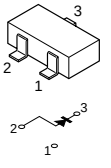
ERD08M-15



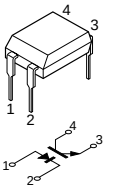
FMG-36S-LF024-104



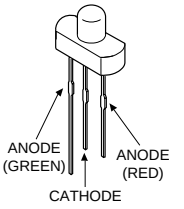
MA3062M-TX
MA3220M-TX



ON3171-R



SPR-325MVW



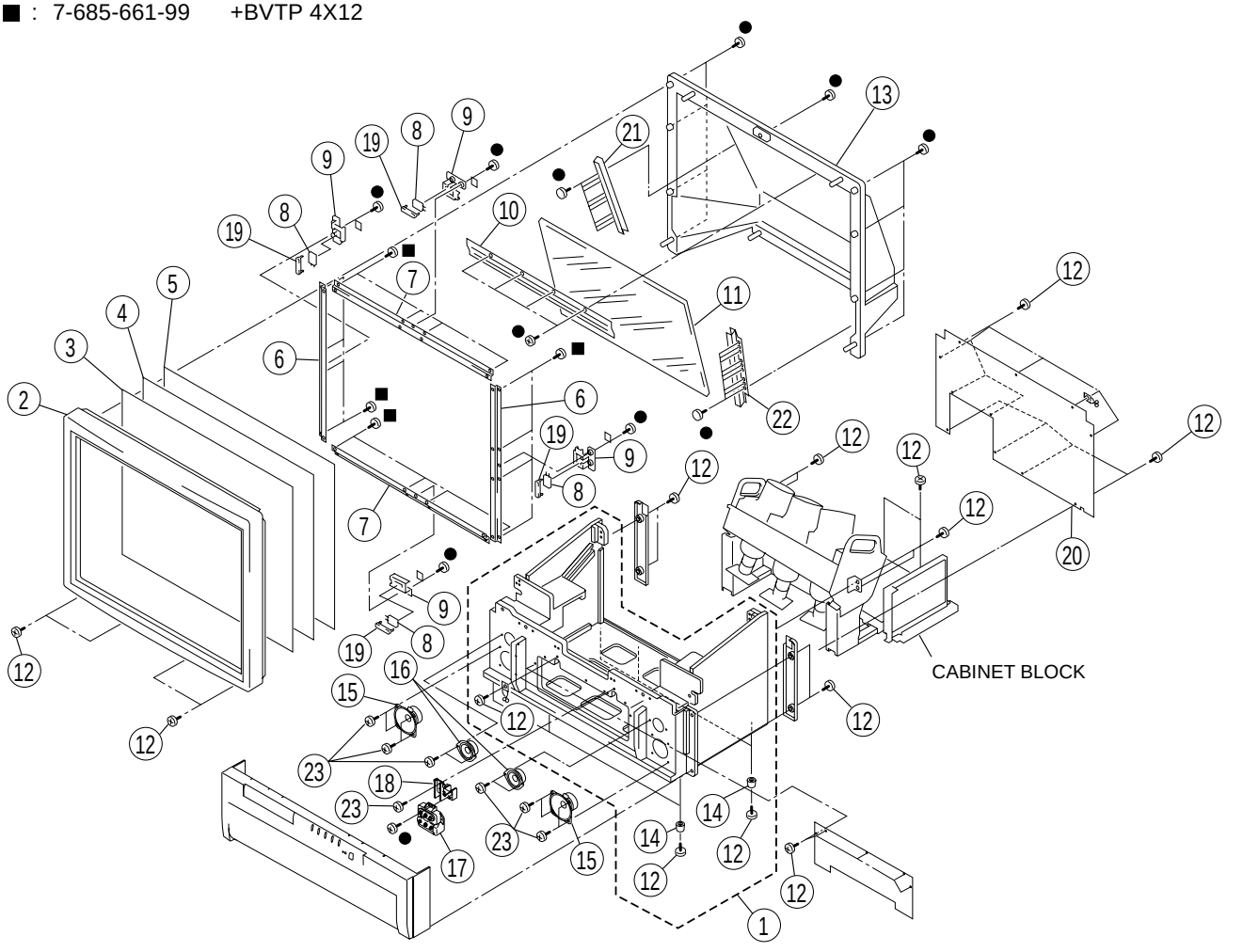
SECTION 7
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

7-1. SCREEN AND COVER BLOCK (KP-ER43)

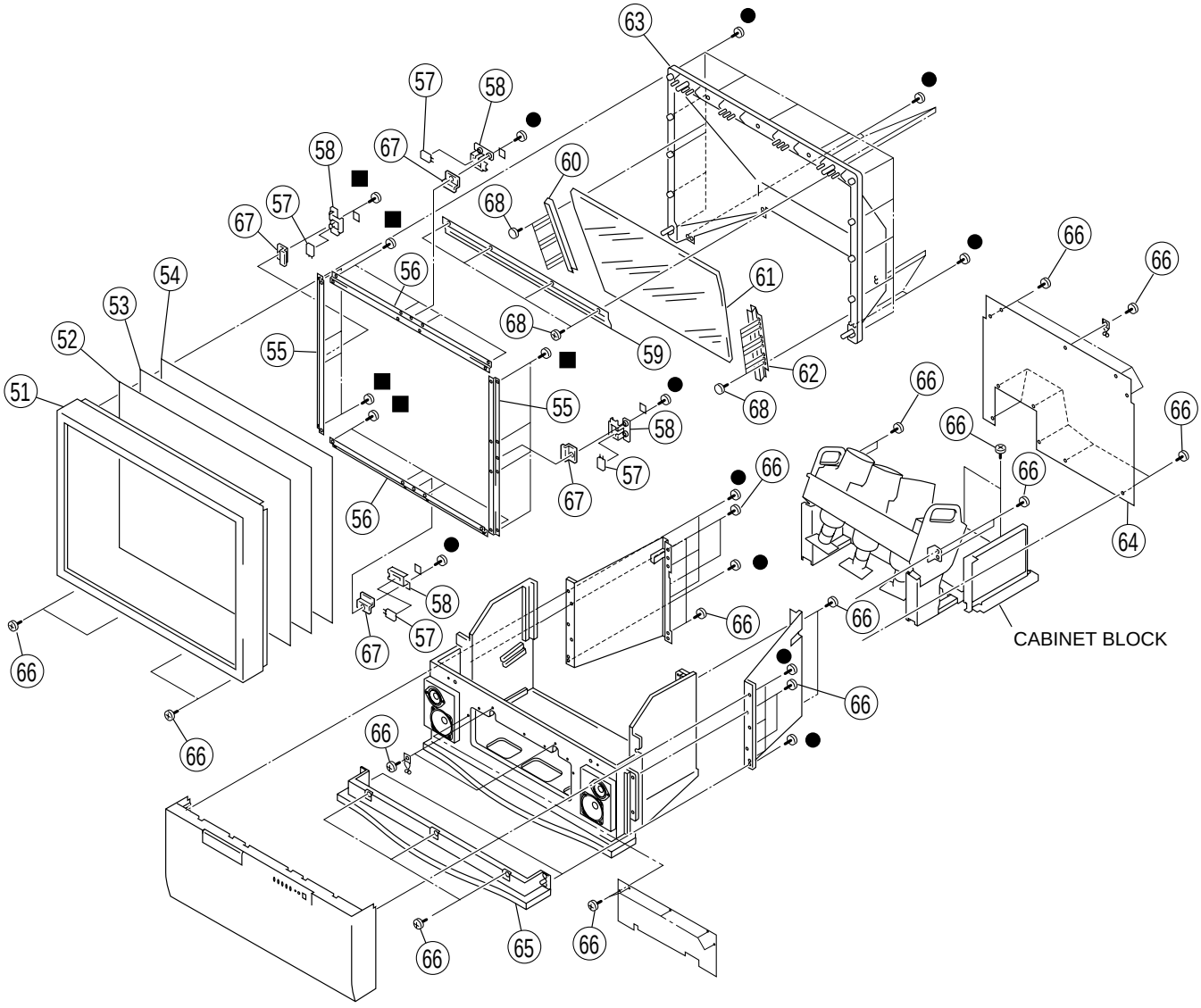
● : 7-685-663-91 +BVTP 4X16
■ : 7-685-661-99 +BVTP 4X12



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*X-4040-018-1	CABINET (43) ASSY	
2	X-4040-017-1	BEZEL (43) ASSY	
3	4-084-649-11	SCREEN (43), CONTRAST	
4	4-075-439-11	PLATE (43L), DIFFUSION	
5	4-070-285-11	PLATE (43F), DIFFUSION	
6	*4-076-698-31	HOLDER, SCREEN	
7	*4-076-698-21	HOLDER, SCREEN	
8	1-528-864-11	BATTERY, SOLAR	
9	*4-066-132-01	HOLDER, SENSOR	
10	*4-066-129-01	HOLDER, MIRROR	
11	4-084-720-01	MIRROR (43)	
12	4-378-522-01	SCREW, TAPPING, HEXAGON HEAD	
13	*4-076-588-11	COVER (43), MIRROR	
14	4-076-577-01	FOOT	
15	1-544-888-11	SPEAKER (10CM)	
16	1-529-403-31	SPEAKER (6.6CM)	
17	⚠1-223-925-81	RESISTOR ASSY (FOCUS PACK)	
18	*4-076-722-01	BRACKET, FP	
19	*4-085-279-01	COVER, SENSOR	
20	*4-076-578-01	BOARD (43), REAR	
21	*4-087-085-01	MIRROR HOLDER (SL)	
22	*4-087-086-01	MIRROR HOLDER (SR)	
23	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	

7-2. SCREEN AND COVER BLOCK (KP-ER53)

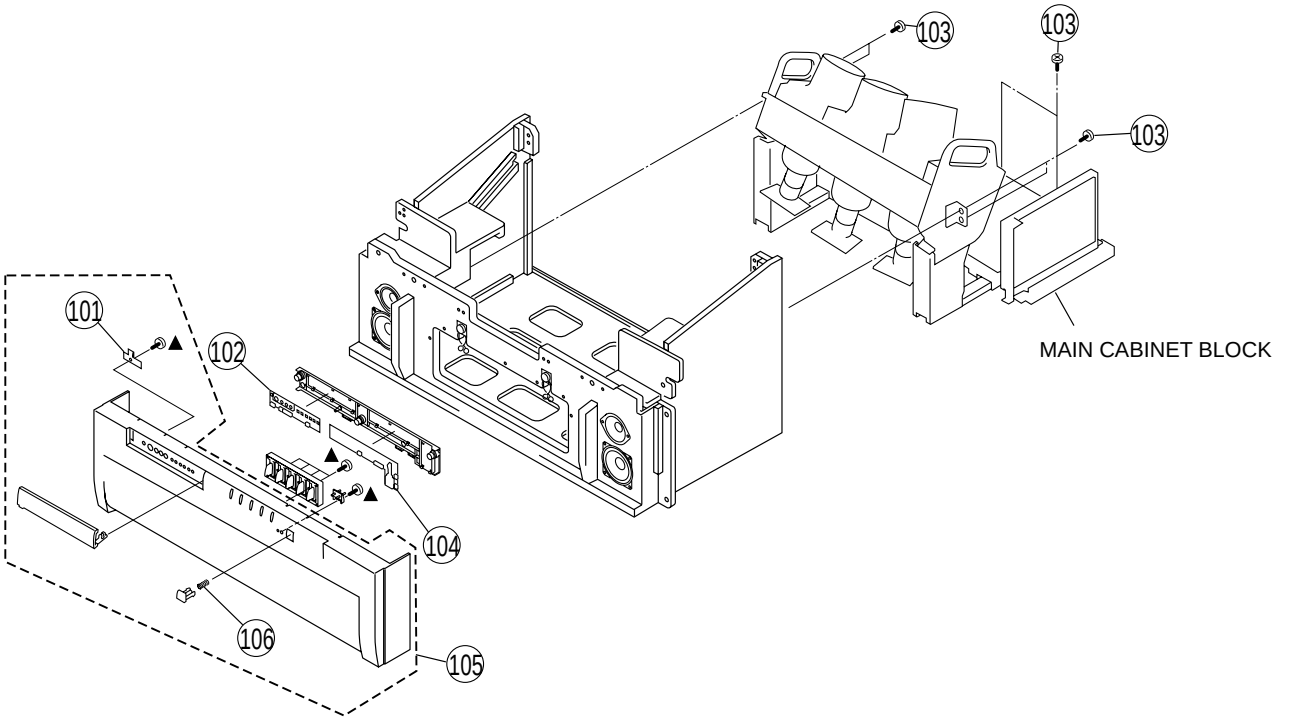
■ : 7-685-661-99 +BVTP 4X12
● : 7-685-663-91 +BVTP 4X16



REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4040-020-1	BEZEL (53) ASSY	
52	4-084-651-11	SCREEN (53), CONTRAST	
53	4-070-525-11	PLATE (L), DIFFUSION	
54	4-084-703-11	PLATE (53FV), DIFFUSION	
55	*4-075-270-01	HOLDER (53) S, SCREEN	
56	*4-075-269-02	HOLDER (53) L, SCREEN	
57	1-528-864-11	BATTERY, SOLAR	
58	*4-066-132-01	HOLDER, SENSOR	
59	*4-075-234-01	HOLDER (TOP), MIRROR	
60	*4-076-705-01	HOLDER (SL), MIRROR	
61	4-070-344-01	MIRROR, REFLECTION	
62	*4-076-706-01	HOLDER (SR), MIRROR	
63	*4-081-503-01	COVER, MIRROR	
64	*4-087-603-11	BOARD (53), REAR	
65	*4-084-936-01	SKIRT, FRONT	
66	4-378-522-01	SCREW, TAPPING, HEXAGON HEAD	
67	*4-085-279-01	COVER, SENSOR	
68	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	

7-3. CABINET AND PANEL BLOCK (KP-ER43)

▲ : 7-685-648-79 +BVTP 3X12

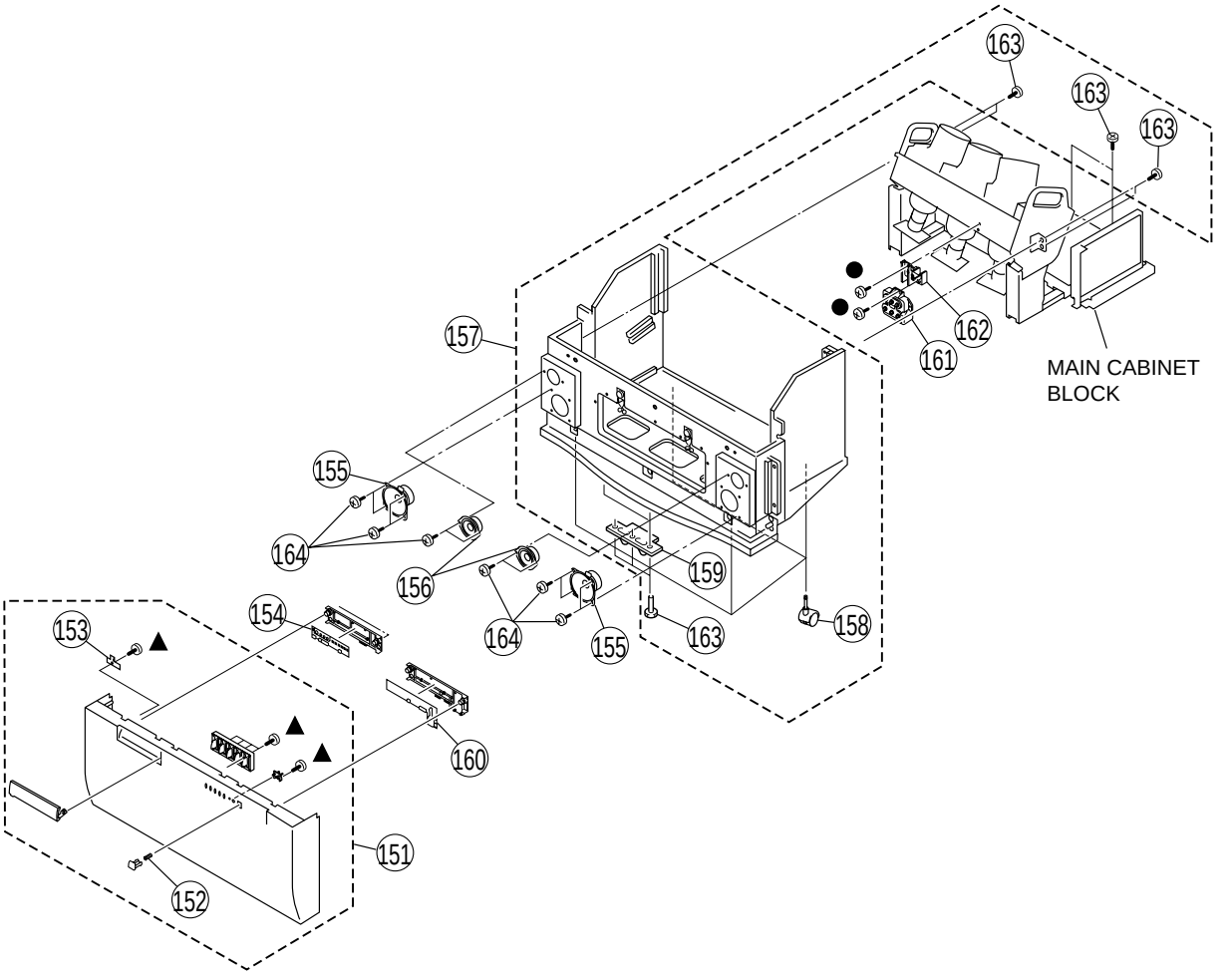


REF.NO.	PART NO.	DESCRIPTION	REMARK
101	4-066-712-01	SPRING (A)	
102	* A-1400-529-A	H2 BOARD, COMPLETE	
103	4-378-522-01	SCREW, TAPPING, HEXAGON HEAD	
104	* A-1400-528-A	H1 BOARD, COMPLETE	
105	X-4040-016-1	GRILLE (43) ASSY, SPEAKER	101,106
106	4-066-103-11	SPRING, COMPRESSION	

7-4. CABINET AND PANEL BLOCK (KP-ER53)

▼ : 7-621-846-60 +BTP 4.1X25
▲ : 7-685-648-79 +BTP 3X12
● : 7-685-663-91 +BVTP 4X16

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.



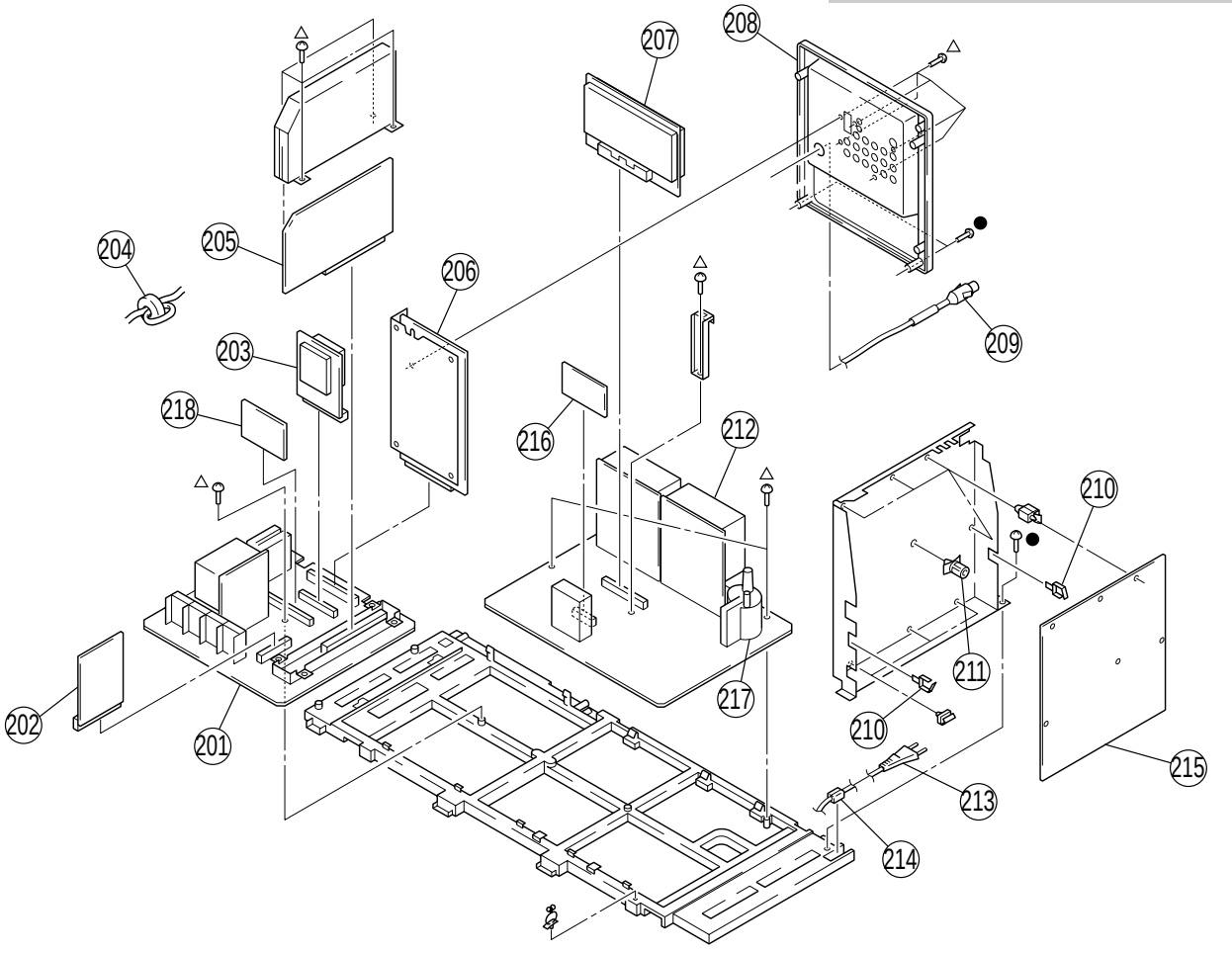
REF.NO.	PART NO.	DESCRIPTION	REMARK
151	X-4040-021-1	GRILLE (53) ASSY, SPEAKER	152,153
152	4-066-103-11	SPRING, COMPRESSION	
153	4-066-712-01	SPRING (A)	
154	* A-1400-529-A	H2 BOARD, COMPLETE	
155	1-544-849-11	SPEAKER (13CM)	
156	1-529-403-31	SPEAKER (6.6CM)	
157	* X-4040-019-1	CABINET (53) ASSY	158,159,163
158	4-075-244-01	CASTER (30 DIA.)	
159	4-085-858-11	FOOT, FRONT	
160	* A-1400-528-A	H1 BOARD, COMPLETE	

REF.NO.	PART NO.	DESCRIPTION	REMARK
161	⚠1-223-925-71	RESISTOR ASSY (FOCUS PACK)	
162	* 4-054-825-11	BRACKET, FOCUS PACK	
163	4-378-522-01	SCREW, TAPPING, HEXAGON HEAD	
164	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	

7-5. MAIN BRACKET BLOCK

△ : 7-685-648-79 +BVTP 3X12
● : 7-685-663-91 +BVTP 4X16

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

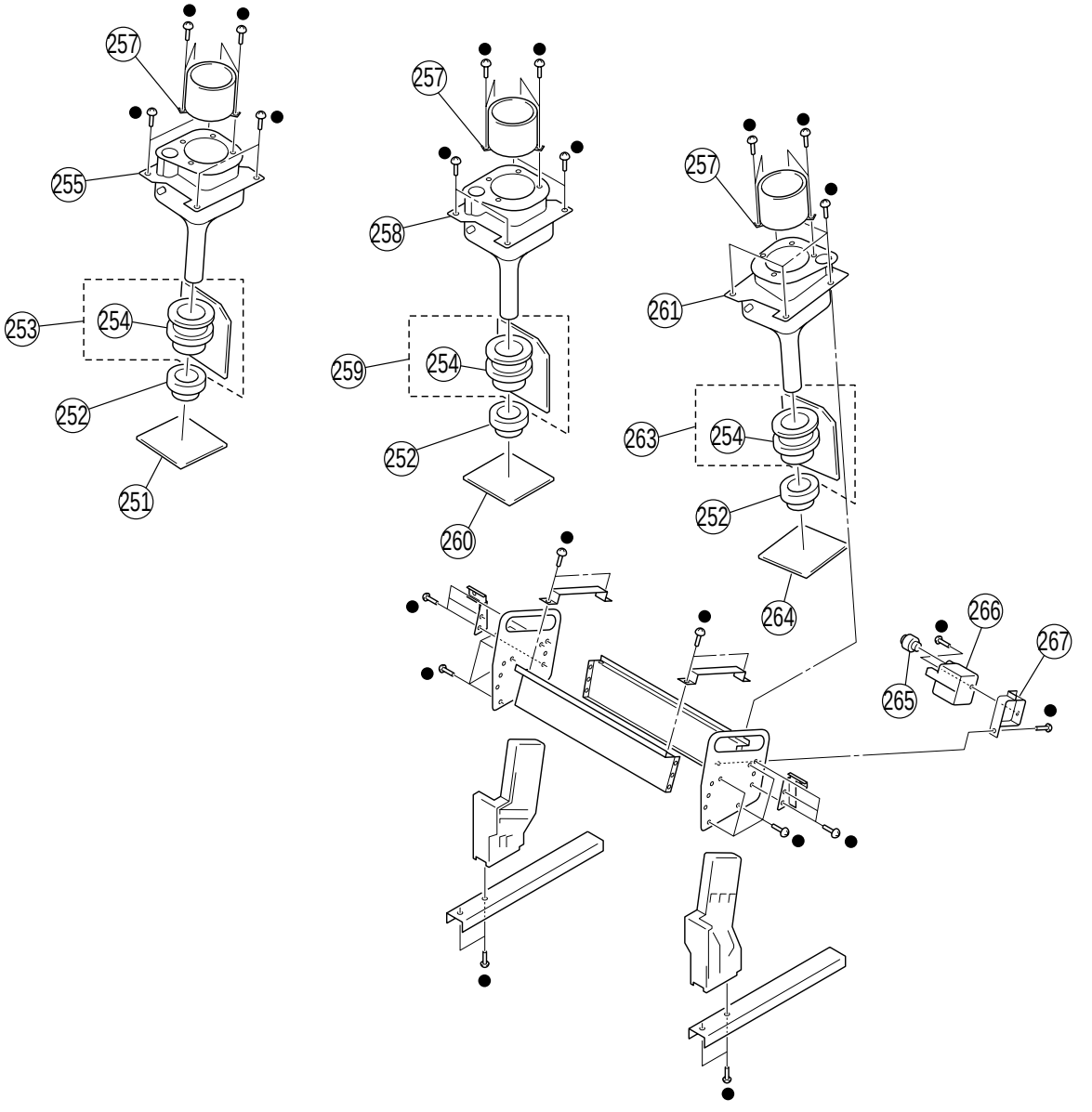


REF.NO.	PART NO.	DESCRIPTION	REMARK
201	A-1300-349-A	A1 BOARD, COMPLETE (ER43M90, ER53M90)	
201	A-1300-350-A	A1 BOARD, COMPLETE (ER43M31/M61/M91, ER53M31/M61/M91)	
202	* A-1346-922-A	E BOARD, COMPLETE	
203	* A-1300-347-A	M1 BOARD, COMPLETE (ER43M61/M90/M91)	
203	* A-1300-348-A	M1 BOARD, COMPLETE (ER43M31)	
203	* A-1300-351-A	M1 BOARD, COMPLETE (ER53M61/M90/M91)	
203	* A-1300-352-A	M1 BOARD, COMPLETE (ER53M31)	
204	1-543-982-11	CORE, FERRITE	
205	* A-1136-087-A	B3 BOARD, COMPLETE	
206	* A-1385-192-A	J1 BOARD, COMPLETE (ER43M91, ER53M91)	
206	* A-1394-982-A	J1 BOARD, COMPLETE (ER43M31/M61/M90, ER53M31/M61/M90)	
207	* A-1136-088-A	BD BOARD, COMPLETE	
208	4-076-679-02	BOARD, TERMINAL	
209	1-790-082-12	CABLE, RF	
210	* 4-316-015-00	HOLDER, WIRE	
211	* 4-046-677-11	HOLDER (B), PWB	
212	* A-1346-924-A	D BOARD, COMPLETE (ER53M31/M61/M90/M91)	
212	* A-1346-937-A	D BOARD, COMPLETE (ER43M31/M61/M90/M91)	
213	⚠1-574-062-52	CORD, POWER (WITH CONNECTOR) (ER43M61/M91, ER53M61/M91)	
213	⚠1-792-002-11	CORD, POWER (WITH FILTER) (ER43M90, ER53M90)	
213	⚠1-792-035-11	CORD, POWER (WITH FILTER) (ER43M31, ER53M31)	
214	4-022-115-00	HOLDER, AC CORD	
215	* A-1316-514-A	G1 BOARD, COMPLETE (ER43M61/M91, ER53M61/M91)	
215	* A-1316-528-A	G BOARD, COMPLETE (ER43M31/M90, ER53M31/M90)	
216	* A-1343-830-A	DS BOARD, COMPLETE	
217	⚠1-453-335-11	FBT ASSY (NX-4010//M3P4)	
218	* A-1136-193-A	BC4 BOARD, COMPLETE	

7-6. PICTURE TUBE BLOCK

● : 7-685-663-91 +BVTP 4X16

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION	REMARK
251	* A-1332-037-A	CR BOARD, COMPLETE	
252	⚠1-452-790-41	NECK ASSY (NA-295)	
253	* A-1391-025-A	ZR BOARD, COMPLETE	
254	⚠1-451-476-21	DY	
255	⚠8-733-571-35	CRT 07MXC2(R)(NEW GUN) (ER43M31/M61/M90/M91)	
255	⚠8-733-572-35	CRT 07MXC3(R)(NEW GUN) (ER53M31/M61/M90/M91)	
257	4-056-258-11	LENS (DELTA 78)	
258	⚠8-733-570-35	CRT 07MXC2(G)(NEW GUN)	
259	* A-1391-026-A	ZG BOARD, COMPLETE	
260	* A-1332-038-A	CG BOARD, COMPLETE	
261	⚠8-733-574-15	CRT 07MAC2(B)(C/D CPL) (ER43M31/M61/M90/M91)	
261	⚠8-733-575-15	CRT 07MAC3(B)(C/D CPL) (ER53M31/M61/M90/M91)	
263	* A-1391-027-A	ZB BOARD, COMPLETE	
264	* A-1332-039-A	CB BOARD, COMPLETE	
265	4-373-137-01	CAP (Z), RUBBER	
266	⚠8-598-955-13	BLOCK ASSY, HV HVB-1030	
267	* 4-066-144-03	HOLDER, HVR (ER53M31/M61/M90/M91)	

H1 H2

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
  PF : μμF
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION			REMARK
	* A-1400-528- A	H1 BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C3001	1-126-157-11	ELECT	10UF	20.00% 16V	
		<CONNECTOR>			
CN3001	* 1-691-292-11	PIN, CONNECTOR (PC BOARD) 3P			
CN3002	* 1-580-690-11	PIN, CONNECTOR (PC BOARD) 4P			
CN3003	* 1-564-519-11	PLUG, CONNECTOR 4P			
CN3004	* 1-564-525-11	PLUG, CONNECTOR 10P			
		<DIODE>			
D3003	8-719-064-11	DIODE SPR-325MVW (ON/STANDBY/TIMER)			
		<IC>			
IC3001	8-742-211-20	IC SBX3071-71(20)			
		<TRANSISTOR>			
Q3001	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q3002	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
		<RESISTOR>			
R3001	1-216-047-91	RES-CHIP	820	5% 1/10W	
R3002	1-216-049-11	RES-CHIP	1K	5% 1/10W	
R3003	1-216-051-00	RES-CHIP	1.2K	5% 1/10W	
R3004	1-216-055-00	RES-CHIP	1.8K	5% 1/10W	
R3005	1-216-061-91	RES-CHIP	3.3K	5% 1/10W	
R3006	1-216-041-00	RES-CHIP	470	5% 1/10W	
R3007	1-216-073-91	RES-CHIP	10K	5% 1/10W	
R3008	1-216-049-11	RES-CHIP	1K	5% 1/10W	
R3009	1-216-073-91	RES-CHIP	10K	5% 1/10W	
R3010	1-216-037-00	RES-CHIP	330	5% 1/10W	
R3011	1-216-049-11	RES-CHIP	1K	5% 1/10W	
R3012	1-216-033-00	RES-CHIP	220	5% 1/10W	
		<SWITCH>			
S3001	1-572-198-11	SWITCH, KEYBOARD (PROG+)			
S3002	1-572-198-11	SWITCH, KEYBOARD (PROG-)			
S3003	1-572-198-11	SWITCH, KEYBOARD (VOL+)			
S3004	1-572-198-11	SWITCH, KEYBOARD (VOL-)			
S3005	1-572-198-11	SWITCH, KEYBOARD (TV/VIDEO)			
S3006	⚠1-571-433-21	SWITCH, PUSH (AC POWER)(POWER)			
		**********			
	* A-1400-529-A	H2 BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C3203	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V	
C3204	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V	
C3205	1-126-157-11	ELECT	10UF	20.00% 16V	
C3206	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V	
		<CONNECTOR>			
CN3201	* 1-564-526-31	PLUG, CONNECTOR 11P			
CN3203	* 1-564-520-11	PLUG, CONNECTOR 5P			
CN3204	* 1-564-519-11	PLUG, CONNECTOR 4P			
		<DIODE>			
D3206	8-719-977-22	DIODE DTZ9.1			
		<JACK>			
J3201	1-764-073-11	TERMINAL BLOCK, S 4P(VIDEO IN 3)			
J3202	1-691-293-31	JACK (HEAD PHONE)			

H2 BD

REF.NO.	PART NO.	DESCRIPTION			REMARK
	<COIL>				
L3201	1-408-615-31	INDUCTOR	100UH		
L3202	1-408-615-31	INDUCTOR	100UH		
	<TRANSISTOR>				
Q3201	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
	<RESISTOR>				
R3201	1-216-025-11	RES-CHIP	100	5%	1/10W
R3202	1-216-025-11	RES-CHIP	100	5%	1/10W
R3203	1-216-033-00	RES-CHIP	220	5%	1/10W
R3204	1-216-033-00	RES-CHIP	220	5%	1/10W
R3205	1-216-033-00	RES-CHIP	220	5%	1/10W
R3206	1-216-033-00	RES-CHIP	220	5%	1/10W
R3207	1-216-073-91	RES-CHIP	10K	5%	1/10W
R3208	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R3209	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R3210	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R3211	1-216-049-11	RES-CHIP	1K	5%	1/10W
R3212	1-216-295-91	SHORT	0		
R3213	1-216-295-91	SHORT	0		
R3214	1-216-025-11	RES-CHIP	100	5%	1/10W
	<SWITCH>				
S3201	1-572-198-11	SWITCH, KEYBOARD (ENTER)			
S3202	1-572-198-11	SWITCH, KEYBOARD (MENU)			
S3203	1-572-198-11	SWITCH, KEYBOARD (MENU+)			
S3204	1-572-198-11	SWITCH, KEYBOARD (MENU-)			
S3205	1-572-198-11	SWITCH, KEYBOARD (AUTO PROGR)			
S3206	1-572-198-11	SWITCH, KEYBOARD (AUTO CONVER)			

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* A-1136-088-A BD BOARD, COMPLETE

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	<CAPACITOR>				
C2601	1-126-947-11	ELECT	47UF	20.00%	25V
C2602	1-163-259-91	CERAMIC CHIP	220PF	5.00%	50V
C2603	1-126-947-11	ELECT	47UF	20.00%	25V
C2604	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2607	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C2608	1-126-947-11	ELECT	47UF	20.00%	25V
C2609	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2610	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2611	1-126-947-11	ELECT	47UF	20.00%	25V
C2612	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2613	1-126-947-11	ELECT	47UF	20.00%	25V
C2615	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2616	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2617	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2618	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2619	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V
C2620	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2621	1-126-947-11	ELECT	47UF	20.00%	25V
C2622	1-126-947-11	ELECT	47UF	20.00%	25V
C2623	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2624	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C2625	1-126-947-11	ELECT	47UF	20.00%	25V
C2626	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C2627	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2628	1-126-947-11	ELECT	47UF	20.00%	25V
C2631	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C2633	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C2635	1-163-038-91	CERAMIC CHIP	0.1UF	25V	
C2636	1-126-947-11	ELECT	47UF	20.00%	25V
C2637	1-163-259-91	CERAMIC CHIP	220PF	5.00%	50V
C2639	1-126-947-11	ELECT	47UF	20.00%	25V
C2640	1-126-947-11	ELECT	47UF	20.00%	25V
C2641	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2643	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2644	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V
C2645	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2647	1-126-947-11	ELECT	47UF	20.00%	25V
C2648	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2649	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2650	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2651	1-126-947-11	ELECT	47UF	20.00%	25V
C2652	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2655	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C2656	1-126-947-11	ELECT	47UF	20.00%	25V
C2658	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2659	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2660	1-126-947-11	ELECT	47UF	20.00%	25V
C2661	1-163-259-91	CERAMIC CHIP	220PF	5.00%	50V
C2662	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2663	1-126-947-11	ELECT	47UF	20.00%	25V
C2666	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2667	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V
C2668	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2670	1-126-947-11	ELECT	47UF	20.00%	25V
C2673	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2674	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2675	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2678	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C2679	1-126-947-11	ELECT	47UF	20.00%	25V
C2680	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2681	1-126-947-11	ELECT	47UF	20.00%	25V
C2683	1-126-947-11	ELECT	47UF	20.00%	25V
C2685	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2686	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V
C2689	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2690	1-126-967-11	ELECT	47UF	20.00%	50V
C2691	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2692	1-126-967-11	ELECT	47UF	20.00%	50V
C2693	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2694	1-126-947-11	ELECT	47UF	20.00%	25V
C2695	1-163-259-91	CERAMIC CHIP	220PF	5.00%	50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C2696	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2697	1-126-947-11	ELECT 47UF	20.00% 25V
C2698	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2699	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2700	1-163-001-11	CERAMIC CHIP 220PF	10.00% 50V
C2701	1-164-346-11	CERAMIC CHIP 1UF	16V
C2705	1-163-275-11	CERAMIC CHIP 0.001UF	5.00% 50V
C2706	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2707	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2708	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2709	1-126-947-11	ELECT 47UF	20.00% 25V
C2710	1-126-935-11	ELECT 470UF	20.00% 6.3V
C2711	1-126-935-11	ELECT 470UF	20.00% 6.3V
C2713	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2714	1-126-947-11	ELECT 47UF	20.00% 25V
C2715	1-164-690-91	CERAMIC CHIP 0.0022UF	20.00% 100V
C2716	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2717	1-126-947-11	ELECT 47UF	20.00% 25V
C2718	1-164-346-11	CERAMIC CHIP 1UF	16V
C2719	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2720	1-126-947-11	ELECT 47UF	20.00% 25V
C2721	1-163-259-91	CERAMIC CHIP 220PF	5.00% 50V
C2724	1-163-275-11	CERAMIC CHIP 0.001UF	5.00% 50V
C2725	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2726	1-126-964-11	ELECT 10UF	20.00% 50V
C2727	1-164-346-11	CERAMIC CHIP 1UF	16V
C2728	1-163-009-91	CERAMIC CHIP 0.001UF	10.00% 50V
C2729	1-163-009-91	CERAMIC CHIP 0.001UF	10.00% 50V
C2730	1-126-947-11	ELECT 47UF	20.00% 25V
C2731	1-164-346-11	CERAMIC CHIP 1UF	16V
C2733	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2737	1-164-690-91	CERAMIC CHIP 0.0022UF	5.00% 50V
C2738	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2739	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2740	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2741	1-163-237-11	CERAMIC CHIP 27PF	5.00% 50V
C2742	1-163-231-11	CERAMIC CHIP 15PF	5.00% 50V
C2744	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2745	1-126-947-11	ELECT 47UF	20.00% 25V
C2746	1-126-947-11	ELECT 47UF	20.00% 25V
C2747	1-126-947-11	ELECT 47UF	20.00% 25V
C2748	1-163-259-91	CERAMIC CHIP 220PF	5.00% 50V
C2749	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2750	1-126-935-11	ELECT 470UF	20.00% 6.3V
C2751	1-126-935-11	ELECT 470UF	20.00% 6.3V
C2753	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2754	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2755	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2756	1-126-947-11	ELECT 47UF	20.00% 25V
C2757	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2758	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2759	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2760	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
C2761	1-163-263-11	CERAMIC CHIP 330PF	5.00% 50V
C2762	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C2763	1-126-947-11	ELECT 47UF	20.00% 16V
C2764	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2765	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C2766	1-163-016-00	CERAMIC CHIP 0.0039UF	10.00% 50V
C2767	1-163-016-00	CERAMIC CHIP 0.0039UF	10.00% 50V
C2768	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2769	1-126-947-11	ELECT 47UF	20.00% 16V
C2770	1-163-263-11	CERAMIC CHIP 330PF	5.00% 50V
C2771	1-163-016-00	CERAMIC CHIP 0.0039UF	10.00% 50V
C2772	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2773	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2774	1-163-016-00	CERAMIC CHIP 0.0039UF	10.00% 50V
C2775	1-126-947-11	ELECT 47UF	20.00% 16V
C2776	1-126-947-11	ELECT 47UF	20.00% 16V
C2777	1-163-263-11	CERAMIC CHIP 330PF	5.00% 50V
C2778	1-163-263-11	CERAMIC CHIP 330PF	5.00% 50V
C2779	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C2780	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C2781	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2782	1-163-038-91	CERAMIC CHIP 0.1UF	25V

<CONNECTOR>

CN2601 *	1-564-522-11	PLUG, CONNECTOR 7P
CN2602	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P
CN2603 *	1-564-511-11	PLUG, CONNECTOR 8P
CN2604	1-695-915-11	TAB (CONTACT)

<DIODE>

D2601	8-719-988-61	DIODE 1SS355TE-17
D2602	8-719-988-61	DIODE 1SS355TE-17
D2603	8-719-988-61	DIODE 1SS355TE-17
D2604	8-719-988-61	DIODE 1SS355TE-17
D2605	6-500-022-01	DIODE MM3Z5V1ST1
D2606	8-719-988-61	DIODE 1SS355TE-17
D2607	8-719-083-82	DIODE UDZS-TE17-12B
D2608	6-500-022-01	DIODE MM3Z5V1ST1
D2609	8-719-988-61	DIODE 1SS355TE-17
D2610	8-719-988-61	DIODE 1SS355TE-17
D2611	8-719-988-61	DIODE 1SS355TE-17
D2612	6-500-022-01	DIODE MM3Z5V1ST1
D2613	8-719-083-82	DIODE UDZS-TE17-12B
D2614	6-500-022-01	DIODE MM3Z5V1ST1
D2615	8-719-988-61	DIODE 1SS355TE-17
D2616	6-500-022-01	DIODE MM3Z5V1ST1
D2617	8-719-083-82	DIODE UDZS-TE17-12B
D2618	6-500-022-01	DIODE MM3Z5V1ST1
D2619	8-719-988-61	DIODE 1SS355TE-17
D2620	8-719-083-82	DIODE UDZS-TE17-12B
D2621	6-500-022-01	DIODE MM3Z5V1ST1
D2622	6-500-022-01	DIODE MM3Z5V1ST1
D2623	8-719-988-61	DIODE 1SS355TE-17
D2624	8-719-988-61	DIODE 1SS355TE-17

BD

REF.NO.	PART NO.	DESCRIPTION	REMARK
	<FERRITBEAD>		
FB2601	1-216-295-91	SHORT 0	
FB2602	1-216-295-91	SHORT 0	
FB2603	1-216-295-91	SHORT 0	
FB2604	1-216-295-91	SHORT 0	
	<IC>		
IC2601	8-759-106-02	IC UPC4570G2	
IC2602	8-759-998-22	IC PCM56P	
IC2603	8-759-106-02	IC UPC4570G2	
IC2604	8-759-998-22	IC PCM56P	
IC2605	8-759-589-66	IC CM0006CF	
IC2606	8-759-485-79	IC TC7SET08FU(TE85L	
IC2607	8-759-673-51	IC MM74HC32SJX	
IC2608	8-759-106-02	IC UPC4570G2	
IC2609	8-759-998-22	IC PCM56P	
IC2610	8-759-106-02	IC UPC4570G2	
IC2611	8-759-488-29	IC TC7W66FU(TE12R)	
IC2612	8-759-669-75	IC TLC2932IPWR	
IC2613	8-759-925-90	IC SN74HC74ANS	
IC2614	8-759-998-22	IC PCM56P	
IC2615	8-759-485-79	IC TC7SET08FU(TE85L	
IC2616	8-759-106-02	IC UPC4570G2	
IC2617	8-759-352-91	IC PST9143NL	
IC2618	8-759-038-15	IC MC74HC4538AF	
IC2619	8-752-916-83	IC CXP86324-028Q	
IC2620	8-759-367-69	IC MC74HC74AFEL	
IC2621	8-759-564-06	IC M24C32-MN6T	
IC2622	8-759-106-02	IC UPC4570G2	
IC2623	8-759-998-22	IC PCM56P	
IC2625	8-759-998-22	IC PCM56P	
IC2626	8-759-394-80	IC NJM2058M-TE2	
IC2627	8-759-394-80	IC NJM2058M-TE2	
	<CHIP CONDUCTOR>		
JR2605	1-216-295-91	SHORT 0	
	<COIL>		
L2601	1-414-234-22	FERRITE 0UH	
L2602	1-414-234-22	FERRITE 0UH	
L2605	1-469-555-21	INDUCTOR 10UH	
L2606	1-414-234-22	FERRITE 0UH	
L2608	1-469-555-21	INDUCTOR 10UH	
L2609	1-414-234-22	FERRITE 0UH	
L2610	1-414-234-22	FERRITE 0UH	
L2611	1-412-029-11	INDUCTOR 10UH	
L2612	1-414-234-22	FERRITE 0UH	
L2615	1-414-234-22	FERRITE 0UH	
L2616	1-414-234-22	FERRITE 0UH	
L2617	1-469-555-21	INDUCTOR 10UH	
L2618	1-469-555-21	INDUCTOR 10UH	
L2619	1-414-234-22	FERRITE 0UH	
L2621	1-414-234-22	FERRITE 0UH	
L2622	1-414-234-22	FERRITE 0UH	
L2625	1-414-234-22	FERRITE 0UH	
L2626	1-469-555-21	INDUCTOR 10UH	
L2627	1-414-234-22	FERRITE 0UH	
L2628	1-469-555-21	INDUCTOR 10UH	
L2629	1-414-234-22	FERRITE 0UH	
L2633	1-412-029-11	INDUCTOR 10UH	
L2634	1-414-234-22	FERRITE 0UH	
L2635	1-414-234-22	FERRITE 0UH	
L2636	1-469-555-21	INDUCTOR 10UH	
L2637	1-414-234-22	FERRITE 0UH	
L2638	1-414-234-22	FERRITE 0UH	
L2639	1-469-555-21	INDUCTOR 10UH	
L2640	1-414-234-22	FERRITE 0UH	
L2643	1-414-234-22	FERRITE 0UH	
L2645	1-469-555-21	INDUCTOR 10UH	
L2646	1-414-234-22	FERRITE 0UH	
L2647	1-414-234-22	FERRITE 0UH	
L2648	1-469-555-21	INDUCTOR 10UH	
L2649	1-412-029-11	INDUCTOR 10UH	
L2652	1-414-234-22	FERRITE 0UH	
L2653	1-469-555-21	INDUCTOR 10UH	
L2654	1-414-234-22	FERRITE 0UH	
L2656	1-469-555-21	INDUCTOR 10UH	
L2657	1-414-234-22	FERRITE 0UH	
L2658	1-414-234-22	FERRITE 0UH	
L2659	1-414-234-22	FERRITE 0UH	
L2661	1-414-234-22	FERRITE 0UH	
L2663	1-414-234-22	FERRITE 0UH	
L2664	1-414-234-22	FERRITE 0UH	
L2665	1-216-295-91	SHORT 0	
L2666	1-216-295-91	SHORT 0	
L2667	1-216-295-91	SHORT 0	
L2668	1-216-295-91	SHORT 0	
L2669	1-216-295-91	SHORT 0	
L2670	1-216-295-91	SHORT 0	
	<TRANSISTOR>		
Q2601	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2602	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q2603	1-801-806-11	TRANSISTOR DTC144EKA	
Q2604	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q2605	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2606	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2607	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q2608	1-801-806-11	TRANSISTOR DTC144EKA	
Q2610	1-801-806-11	TRANSISTOR DTC144EKA	
Q2611	1-801-806-11	TRANSISTOR DTC144EKA	
Q2612	1-801-806-11	TRANSISTOR DTC144EKA	
Q2613	1-801-806-11	TRANSISTOR DTC144EKA	
Q2614	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

REF.NO.	PART NO.	DESCRIPTION			REMARK
	<RESISTOR>				
R2601	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2602	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2603	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2606	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2607	1-216-295-91	SHORT	0		
R2608	1-216-295-91	SHORT	0		
R2609	1-216-025-11	RES-CHIP	100	5%	1/10W
R2610	1-216-025-11	RES-CHIP	100	5%	1/10W
R2611	1-216-025-11	RES-CHIP	100	5%	1/10W
R2612	1-216-025-11	RES-CHIP	100	5%	1/10W
R2613	1-216-025-11	RES-CHIP	100	5%	1/10W
R2621	1-216-025-11	RES-CHIP	100	5%	1/10W
R2622	1-216-025-11	RES-CHIP	100	5%	1/10W
R2623	1-216-025-11	RES-CHIP	100	5%	1/10W
R2624	1-216-081-00	RES-CHIP	22K	5%	1/10W
R2625	1-216-025-11	RES-CHIP	100	5%	1/10W
R2628	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2629	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2630	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R2631	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2632	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2634	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2635	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R2636	1-216-295-91	SHORT	0		
R2637	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R2638	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2639	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W
R2640	1-216-033-00	RES-CHIP	220	5%	1/10W
R2641	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2643	1-216-033-00	RES-CHIP	220	5%	1/10W
R2644	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R2645	1-216-033-00	RES-CHIP	220	5%	1/10W
R2646	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2647	1-216-025-11	RES-CHIP	100	5%	1/10W
R2648	1-216-295-91	SHORT	0		
R2649	1-216-295-91	SHORT	0		
R2650	1-216-025-11	RES-CHIP	100	5%	1/10W
R2651	1-216-025-11	RES-CHIP	100	5%	1/10W
R2652	1-216-025-11	RES-CHIP	100	5%	1/10W
R2653	1-216-025-11	RES-CHIP	100	5%	1/10W
R2654	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R2655	1-216-025-11	RES-CHIP	100	5%	1/10W
R2657	1-216-025-11	RES-CHIP	100	5%	1/10W
R2658	1-216-025-11	RES-CHIP	100	5%	1/10W
R2659	1-216-025-11	RES-CHIP	100	5%	1/10W
R2661	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2662	1-216-025-11	RES-CHIP	100	5%	1/10W
R2663	1-216-025-11	RES-CHIP	100	5%	1/10W
R2664	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2665	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2666	1-216-033-00	RES-CHIP	220	5%	1/10W
R2667	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2668	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2669	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2671	1-216-025-11	RES-CHIP	100	5%	1/10W
R2672	1-216-025-11	RES-CHIP	100	5%	1/10W
R2673	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2674	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2675	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2676	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2677	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2678	1-216-025-11	RES-CHIP	100	5%	1/10W
R2679	1-216-025-11	RES-CHIP	100	5%	1/10W
R2680	1-216-033-00	RES-CHIP	220	5%	1/10W
R2681	1-216-025-11	RES-CHIP	100	5%	1/10W
R2682	1-216-025-11	RES-CHIP	100	5%	1/10W
R2683	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2684	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2685	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2688	1-216-037-00	RES-CHIP	330	5%	1/10W
R2689	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2690	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2691	1-216-295-91	SHORT	0		
R2692	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2693	1-216-295-91	SHORT	0		
R2694	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2695	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2698	1-216-037-00	RES-CHIP	330	5%	1/10W
R2699	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2701	1-216-041-00	RES-CHIP	470	5%	1/10W
R2703	1-216-037-00	RES-CHIP	330	5%	1/10W
R2704	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2705	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2706	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2707	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2708	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2709	1-216-025-11	RES-CHIP	100	5%	1/10W
R2710	1-216-025-11	RES-CHIP	100	5%	1/10W
R2712	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2714	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2715	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2716	1-216-025-11	RES-CHIP	100	5%	1/10W
R2717	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2719	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2720	1-216-295-91	SHORT	0		
R2721	1-216-295-91	SHORT	0		
R2723	1-208-793-11	METAL CHIP	3K	0.5%	1/10W
R2725	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R2726	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R2728	1-216-025-11	RES-CHIP	100	5%	1/10W
R2729	1-216-033-00	RES-CHIP	220	5%	1/10W
R2730	1-216-025-11	RES-CHIP	100	5%	1/10W
R2731	1-208-850-11	METAL CHIP	680K	0.5%	1/10W
R2732	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2733	1-216-025-11	RES-CHIP	100	5%	1/10W
R2734	1-216-025-11	RES-CHIP	100	5%	1/10W
R2735	1-216-025-11	RES-CHIP	100	5%	1/10W
R2736	1-216-025-11	RES-CHIP	100	5%	1/10W
R2737	1-216-025-11	RES-CHIP	100	5%	1/10W
R2738	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2739	1-216-025-11	RES-CHIP	100	5%	1/10W

BD DS

REF.NO.	PART NO.	DESCRIPTION			REMARK
R2740	1-216-025-11	RES-CHIP	100	5%	1/10W
R2741	1-216-033-00	RES-CHIP	220	5%	1/10W
R2742	1-216-025-11	RES-CHIP	100	5%	1/10W
R2743	1-216-025-11	RES-CHIP	100	5%	1/10W
R2744	1-216-025-11	RES-CHIP	100	5%	1/10W
R2745	1-216-025-11	RES-CHIP	100	5%	1/10W
R2746	1-208-850-11	METAL CHIP	680K	0.5%	1/10W
R2747	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2750	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2751	1-216-025-11	RES-CHIP	100	5%	1/10W
R2752	1-216-025-11	RES-CHIP	100	5%	1/10W
R2753	1-216-025-11	RES-CHIP	100	5%	1/10W
R2755	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2756	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2758	1-216-025-11	RES-CHIP	100	5%	1/10W
R2759	1-216-033-00	RES-CHIP	220	5%	1/10W
R2760	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2761	1-216-295-91	SHORT	0		
R2762	1-216-295-91	SHORT	0		
R2763	1-216-025-11	RES-CHIP	100	5%	1/10W
R2764	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2765	1-216-025-11	RES-CHIP	100	5%	1/10W
R2766	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2767	1-216-033-00	RES-CHIP	220	5%	1/10W
R2768	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2769	1-216-025-11	RES-CHIP	100	5%	1/10W
R2771	1-216-033-00	RES-CHIP	220	5%	1/10W
R2773	1-216-025-11	RES-CHIP	100	5%	1/10W
R2774	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2775	1-216-025-11	RES-CHIP	100	5%	1/10W
R2777	1-216-025-11	RES-CHIP	100	5%	1/10W
R2778	1-216-025-11	RES-CHIP	100	5%	1/10W
R2779	1-216-025-11	RES-CHIP	100	5%	1/10W
R2781	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2782	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2783	1-216-295-91	SHORT	0		
R2784	1-216-025-11	RES-CHIP	100	5%	1/10W
R2785	1-216-041-00	RES-CHIP	470	5%	1/10W
R2786	1-216-041-00	RES-CHIP	470	5%	1/10W
R2787	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R2789	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2790	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R2791	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2792	1-216-033-00	RES-CHIP	220	5%	1/10W
R2793	1-216-033-00	RES-CHIP	220	5%	1/10W
R2794	1-216-025-11	RES-CHIP	100	5%	1/10W
R2796	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2797	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2799	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R2800	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2803	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R2804	1-216-295-91	SHORT	0		
R2805	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2806	1-216-025-11	RES-CHIP	100	5%	1/10W
R2807	1-216-295-91	SHORT	0		
R2808	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2809	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2810	1-216-025-11	RES-CHIP	100	5%	1/10W
R2811	1-216-025-11	RES-CHIP	100	5%	1/10W
R2812	1-216-025-11	RES-CHIP	100	5%	1/10W
R2813	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2814	1-216-025-11	RES-CHIP	100	5%	1/10W
R2815	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2818	1-216-025-11	RES-CHIP	100	5%	1/10W
R2821	1-216-025-11	RES-CHIP	100	5%	1/10W
R2823	1-216-033-00	RES-CHIP	220	5%	1/10W
R2824	1-216-033-00	RES-CHIP	220	5%	1/10W
R2825	1-216-033-00	RES-CHIP	220	5%	1/10W
R2826	1-216-033-00	RES-CHIP	220	5%	1/10W
R2827	1-216-033-00	RES-CHIP	220	5%	1/10W
R2831	1-216-025-11	RES-CHIP	100	5%	1/10W
R2832	1-216-025-11	RES-CHIP	100	5%	1/10W
R2834	1-216-025-11	RES-CHIP	100	5%	1/10W
R2835	1-216-025-11	RES-CHIP	100	5%	1/10W
R2836	1-218-773-11	RES-CHIP	750K	5%	1/10W
R2837	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2838	1-216-122-11	RES-CHIP	1.1M	5%	1/10W
R2839	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2840	1-216-025-11	RES-CHIP	100	5%	1/10W
R2841	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2842	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2843	1-216-295-91	SHORT	0		
R2844	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2845	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2846	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2847	1-216-025-11	RES-CHIP	100	5%	1/10W
R2848	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2849	1-216-025-11	RES-CHIP	100	5%	1/10W
R2850	1-216-124-11	RES-CHIP	1.3M	5%	1/10W
R2851	1-216-124-11	RES-CHIP	1.3M	5%	1/10W
R2852	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2853	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2872	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2873	1-216-049-11	RES-CHIP	1K	5%	1/10W
		<CRYSTAL>			
X2701	1-767-925-21	VIBRATOR, CRYSTAL (12MHz)			

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* A-1343-830-A DS BOARD, COMPLETE
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<CAPACITOR>

C3501	1-126-947-11	ELECT	47UF	20.00%	25V
C3502	1-126-947-11	ELECT	47UF	20.00%	25V
C3503	1-126-947-11	ELECT	47UF	20.00%	25V
C3504	1-126-947-11	ELECT	47UF	20.00%	25V
C3505	1-126-947-11	ELECT	47UF	20.00%	25V
C3506	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C3507	1-126-964-11	ELECT	10UF	20.00%	50V
C3508	1-107-714-11	ELECT	10UF	20.00%	16V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C3509	1-137-350-11	MYLAR	0.015UF	5.00%	50V
C3510	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C3511	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C3512	1-126-947-11	ELECT	47UF	20.00%	25V
C3513	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C3514	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C3515	1-126-947-11	ELECT	47UF	20.00%	25V
C3518	1-163-224-11	CERAMIC CHIP	7PF	0.25PF	50V
C3519	1-126-947-11	ELECT	47UF	20.00%	25V
C3520	1-137-374-11	MYLAR	0.047UF	5.00%	50V
C3523	1-163-243-11	CERAMIC CHIP	47PF	5.00%	50V
C3525	1-126-947-11	ELECT	47UF	20.00%	25V
C3526	1-126-947-11	ELECT	47UF	20.00%	25V
C3528	1-107-714-11	ELECT	10UF	20.00%	16V
		<CONNECTOR>			
CN3501 *	1-691-632-21	CONNECTOR, BOARD TO BOARD 15P			
		<IC>			
IC3502	8-759-251-31	IC CA0007AM			
IC3503	8-759-251-31	IC CA0007AM			
IC3504	8-759-251-31	IC CA0007AM			
IC3505	8-759-711-28	IC NJM2058D			
IC3506	8-759-100-96	IC UPC4558G2			
		<RESISTOR>			
R3501	1-216-073-91	RES-CHIP	10K	5%	1/10W
R3502	1-216-093-91	RES-CHIP	68K	5%	1/10W
R3503	1-216-073-91	RES-CHIP	10K	5%	1/10W
R3504	1-216-689-11	RES-CHIP	39K	5%	1/10W
R3506	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3507	1-216-689-11	RES-CHIP	39K	5%	1/10W
R3508	1-216-073-91	RES-CHIP	10K	5%	1/10W
R3509	1-216-073-91	RES-CHIP	10K	5%	1/10W
R3511	1-208-803-11	METAL CHIP	7.5K	0.5%	1/10W
R3512	1-216-033-00	RES-CHIP	220	5%	1/10W
R3513	1-216-033-00	RES-CHIP	220	5%	1/10W
R3514	1-216-073-91	RES-CHIP	10K	5%	1/10W
R3515	1-216-033-00	RES-CHIP	220	5%	1/10W
R3518	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R3519	1-216-081-00	RES-CHIP	22K	5%	1/10W
R3520	1-216-081-00	RES-CHIP	22K	5%	1/10W
R3521	1-216-103-00	RES-CHIP	180K	5%	1/10W
R3523	1-216-099-00	RES-CHIP	120K	5%	1/10W
R3524	1-216-097-11	RES-CHIP	100K	5%	1/10W
R3526	1-216-039-00	RES-CHIP	390	5%	1/10W
R3529	1-216-107-00	RES-CHIP	270K	5%	1/10W
R3530	1-216-081-00	RES-CHIP	22K	5%	1/10W
R3531	1-216-041-00	RES-CHIP	470	5%	1/10W
R3532	1-216-037-00	RES-CHIP	330	5%	1/10W
R3533	1-216-075-00	RES-CHIP	12K	5%	1/10W
R3535	1-216-097-11	RES-CHIP	100K	5%	1/10W
R3537	1-216-081-00	RES-CHIP	22K	5%	1/10W
R3538	1-216-073-91	RES-CHIP	10K	5%	1/10W
R3541	1-216-079-00	RES-CHIP	18K	5%	1/10W

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* A-1346-924-A D BOARD, COMPLETE (ER53M31/M61/M90/M91)

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* A-1346-937-A D BOARD, COMPLETE (ER43M31/M61/M90/M91)

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4-363-414-00 SPACER, MICA
4-382-854-11 SCREW (M3X10), P, SW (+)
* 4-393-506-01 RETAINER, TR
7-682-952-09 SCREW +PSW 3X16

<CAPACITOR>

C5001	1-126-947-11	ELECT	47UF	20.00%	16V
C5002	1-126-963-11	ELECT	4.7UF	20.00%	50V
C5011	1-126-934-11	ELECT	220UF	20.00%	16V
C5020	1-126-961-11	ELECT	2.2UF	20.00%	50V
C5102	1-102-973-00	CERAMIC	100PF	5.00%	50V
C5103	1-126-960-11	ELECT	1UF	20.00%	50V
C5104	1-137-415-11	MYLAR	0.0068UF	10.00%	100V
C5105	1-102-973-00	CERAMIC	100PF	5.00%	50V
C5112	1-162-117-00	CERAMIC	100PF	10.00%	500V
C5113	1-136-207-11	MYLAR	0.047UF	10.00%	250V
C5115	1-124-347-51	ELECT	100UF	20.00%	160V
C5117	1-162-116-00	CERAMIC	680PF	10.00%	2KV
C5118	1-137-391-11	MYLAR	0.0047UF	5.00%	100V
C5119	1-162-116-00	CERAMIC	680PF	10.00%	2KV
C5120	1-162-116-00	CERAMIC	680PF	10.00%	2KV
C5123	1-129-718-00	FILM	0.022UF	5.00%	630V
C5127	1-117-643-11	FILM	9100PF	3.00%	1.2KV
C5130	1-115-521-11	FILM	0.82UF	5.00%	250V
C5133	1-104-665-11	ELECT	100UF	20.00%	25V
C5135	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C5136	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C5137	1-136-559-11	MYLAR	0.0047UF	10.00%	400V
C5138	1-126-965-91	ELECT	22UF	20.00%	50V
C5141	1-136-189-00	MYLAR	0.1UF	10.00%	250V
C5142	1-162-117-00	CERAMIC	100PF	10.00%	500V
C5143	1-115-521-11	FILM	0.82UF	5.00%	250V
C5145	1-104-665-11	ELECT	100UF	20.00%	25V
C5146	1-107-655-11	ELECT	47UF	20.00%	250V
C5147	1-102-228-00	CERAMIC	470PF	10.00%	500V
C5148	1-126-941-11	ELECT	470UF	20.00%	25V
C5149	1-126-941-11	ELECT	470UF	20.00%	25V
C5150	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C5151	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C5152	1-126-972-11	ELECT	1000UF	20.00%	50V
C5153	1-126-972-11	ELECT	1000UF	20.00%	50V
C5158	1-124-347-51	ELECT	100UF	20.00%	160V
C5159	1-126-935-11	ELECT	470UF	20.00%	16V
C5160	1-126-935-11	ELECT	470UF	20.00%	16V
C5163	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C5164	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00%	50V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C5165	1-126-967-11	ELECT	47UF	20.00%	50V
C5166	1-107-909-11	ELECT	47UF	20.00%	50V
C5167	1-126-967-11	ELECT	47UF	20.00%	50V
C5168	1-107-909-11	ELECT	47UF	20.00%	50V
C5170	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
C5171	1-106-387-00	MYLAR	0.068UF	10.00%	200V
C5172	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
C5173	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
C5174	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
C5175	1-126-967-11	ELECT	47UF	20.00%	50V
C5176	1-126-967-11	ELECT	47UF	20.00%	50V
C5204	1-126-933-11	ELECT	100UF	20.00%	16V
C5205	1-130-495-00	MYLAR	0.1UF	5.00%	50V
C5206	1-126-960-11	ELECT	1UF	20.00%	50V
C5207	1-126-965-91	ELECT	22UF	20.00%	50V
C5208	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
C5209	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C5211	1-130-495-00	MYLAR	0.1UF	5.00%	50V
C5214	1-126-935-11	ELECT	470UF	20.00%	16V
C5215	1-126-964-11	ELECT	10UF	20.00%	50V
C5216	1-164-096-11	CERAMIC	0.01UF		50V
C5217	1-164-096-11	CERAMIC	0.01UF		50V
C5218	1-164-096-11	CERAMIC	0.01UF		50V
C5219	1-164-096-11	CERAMIC	0.01UF		50V
C5220	1-164-096-11	CERAMIC	0.01UF		50V
C5221	1-164-096-11	CERAMIC	0.01UF		50V
C5222	1-164-096-11	CERAMIC	0.01UF		50V
C5223	1-126-960-11	ELECT	1UF	20.00%	50V
C5224	1-126-967-11	ELECT	47UF	20.00%	50V
C5225	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C5226	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C5301	1-126-947-11	ELECT	47UF	20.00%	25V
C5302	1-104-665-11	ELECT	100UF	20.00%	25V
C5303	1-126-933-11	ELECT	100UF	20.00%	16V
C5304	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C5305	1-130-777-00	MYLAR	0.1UF	5.00%	100V
C5307	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C5308	1-126-960-11	ELECT	1UF	20.00%	50V
C5310	1-126-964-11	ELECT	10UF	20.00%	50V
C5311	1-136-177-00	FILM	1UF	5.00%	50V
C5312	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C5313	1-126-933-11	ELECT	100UF	20.00%	16V
C5314	1-126-969-11	ELECT	220UF	20.00%	50V
C5315	1-126-964-11	ELECT	10UF	20.00%	50V
C5316	1-137-401-11	MYLAR	0.22UF	10.00%	100V
C5317	1-126-947-11	ELECT	47UF	20.00%	16V
C5318	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C5319	1-126-941-11	ELECT	470UF	20.00%	25V
C5320	1-126-972-11	ELECT	1000UF	20.00%	50V
C5321	1-163-243-11	CERAMIC CHIP	47PF	5.00%	50V
C5323	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C5326	1-126-972-11	ELECT	1000UF	20.00%	50V
C5327	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C5328	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C5329	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C5331	1-126-960-11	ELECT	1UF	20.00%	50V
C5332	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C5333	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C5334	1-126-960-11	ELECT	1UF	20.00%	50V
C5401	1-126-967-11	ELECT	47UF	20.00%	50V
C5402	1-126-947-11	ELECT	47UF	20.00%	25V
C5403	1-102-125-00	CERAMIC	0.0047UF	10.00%	50V
C5404	1-102-125-00	CERAMIC	0.0047UF	10.00%	50V
C5405	1-102-125-00	CERAMIC	0.0047UF	10.00%	50V
C5406	1-126-947-11	ELECT	47UF	20.00%	25V
C5407	1-130-495-00	MYLAR	0.1UF	5.00%	50V
C5507	1-102-973-00	CERAMIC	100PF	5.00%	50V
C5508	1-102-973-00	CERAMIC	100PF	5.00%	50V
C5509	1-102-973-00	CERAMIC	100PF	5.00%	50V
C5510	1-102-973-00	CERAMIC	100PF	5.00%	50V
C5511	1-102-973-00	CERAMIC	100PF	5.00%	50V
C5512	1-102-973-00	CERAMIC	100PF	5.00%	50V
C5517	1-126-965-91	ELECT	22UF	20.00%	50V
C5518	1-126-965-91	ELECT	22UF	20.00%	50V
C5519	1-126-969-11	ELECT	220UF	20.00%	50V
C5520	1-126-969-11	ELECT	220UF	20.00%	50V
C5521	1-130-495-00	MYLAR	0.1UF	5.00%	50V
C5522	1-130-495-00	MYLAR	0.1UF	5.00%	50V
C5523	1-126-971-11	ELECT	470UF	20.00%	50V
C5524	1-126-971-11	ELECT	470UF	20.00%	50V
C5527	1-126-969-11	ELECT	220UF	20.00%	50V
C5528	1-126-969-11	ELECT	220UF	20.00%	50V
C5529	1-137-150-11	MYLAR	0.01UF	5.00%	50V
C5530	1-137-150-11	MYLAR	0.01UF	5.00%	50V
C5711	1-130-495-00	MYLAR	0.1UF	5.00%	50V
C5712	1-136-177-00	FILM	1UF	5.00%	50V
C5713	1-104-665-11	ELECT	100UF	20.00%	25V
C5714	1-130-471-00	MYLAR	0.001UF	5.00%	50V
C5715	1-137-150-11	MYLAR	0.01UF	5.00%	50V
C5716	1-104-665-11	ELECT	100UF	20.00%	25V
C5717	1-126-968-11	ELECT	100UF	20.00%	50V
C5718	1-162-114-00	CERAMIC	0.0047UF		2KV
C5719	1-126-968-11	ELECT	100UF	20.00%	50V
C5720	1-137-372-11	MYLAR	0.022UF	5.00%	50V
C5721	1-104-661-91	ELECT	330UF	20.00%	16V
C5722	1-126-934-11	ELECT	220UF	20.00%	16V
C5727	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C5728	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C5759	1-126-964-11	ELECT	10UF	20.00%	50V
C5760	1-164-182-11	CERAMIC CHIP	0.0033UF	10.00%	50V

<CONNECTOR>

CN5001 *	1-564-506-11	PLUG, CONNECTOR 3P	
CN5002 *	1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
CN5003 *	1-506-371-00	PIN, CONNECTOR 2P	
CN5004	1-695-915-11	TAB (CONTACT)	
CN5006 *	1-564-512-11	PLUG, CONNECTOR 9P	
CN5007 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN5008 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN5009 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN5010 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN5011 *	1-564-507-11	PLUG, CONNECTOR 4P	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION	REMARK
CN5012 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN5013 *	1-764-333-11	PLUG, CONNECTOR 10P	
CN5014 *	1-691-135-11	PIN, CONNECTOR (PC BOARD) 4P	
CN5015	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
CN5016	1-900-903-64	CONNECTOR ASSY 20P	
CN5017	1-900-903-64	CONNECTOR ASSY 20P	
CN5018 *	1-564-511-11	PLUG, CONNECTOR 8P	
CN5019 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN5020 *	1-564-506-11	PLUG, CONNECTOR 3P	
CN5402 *	1-691-616-21	CONNECTOR, BOARD TO BOARD 15P	
		<DIODE>	
D3501	6-500-023-01	DIODE MM3Z5V6ST1	
D3502	8-719-914-44	DIODE DAP202K	
D3503	6-500-023-01	DIODE MM3Z5V6ST1	
D5001	8-719-991-33	DIODE 1SS133T-77	
D5002	8-719-991-33	DIODE 1SS133T-77	
D5006	8-719-991-33	DIODE 1SS133T-77	
D5008	8-719-991-33	DIODE 1SS133T-77	
D5101	8-719-110-83	DIODE RD36ES-B2	
D5107	8-719-979-99	DIODE ERD08M-15	
D5108	8-719-052-09	DIODE FMG-36S-LF024-104	
D5114	8-719-971-20	DIODE ERC38-06	
D5115	8-719-302-43	DIODE EL1Z	
D5116	8-719-979-85	DIODE EGP20G	
D5117	8-719-302-43	DIODE EL1Z	
D5118	8-719-979-85	DIODE EGP20G	
D5121	8-719-979-85	DIODE EGP20G	
D5122	8-719-979-85	DIODE EGP20G	
D5201	8-719-991-33	DIODE 1SS133T-77	
D5202	8-719-109-85	DIODE RD5.1ESB2	
D5203	8-719-110-39	DIODE RD15ES-B1	
D5204	8-719-110-03	DIODE RD7.5ESB2	
D5205	8-719-991-33	DIODE 1SS133T-77	
D5207	8-719-991-33	DIODE 1SS133T-77	
D5208	8-719-991-33	DIODE 1SS133T-77	
D5301	8-719-110-39	DIODE RD15ES-B1	
D5302	8-719-991-33	DIODE 1SS133T-77	
D5303	8-719-908-03	DIODE GP08D	
D5304	8-719-908-03	DIODE GP08D	
D5305	8-719-991-33	DIODE 1SS133T-77	
D5306	8-719-110-39	DIODE RD15ES-B1	
D5307	8-719-110-39	DIODE RD15ES-B1	
D5308	8-719-110-63	DIODE RD24ES-B3	
D5309	8-719-110-63	DIODE RD24ES-B3	
D5401	8-719-110-17	DIODE RD10ESB2	
D5402	8-719-109-54	DIODE RD2.2ES-B2	
D5701	8-719-991-33	DIODE 1SS133T-77	
D5704	8-719-991-33	DIODE 1SS133T-77	
D5719	8-719-110-39	DIODE RD15ES-B1	
D5721	8-719-110-39	DIODE RD15ES-B1	
D5724	8-719-018-82	DIODE RGP02-20EL-6394	
D5726	8-719-991-33	DIODE 1SS133T-77	
D5727	8-719-991-33	DIODE 1SS133T-77	
D5732	8-719-991-33	DIODE 1SS133T-77	
		<FERRITBEAD>	
FB5102	1-412-911-11	FERRITE 0UH	
FB5103	1-412-911-11	FERRITE 0UH	
		<IC>	
IC5103	8-759-701-79	IC NJM7812FA	
IC5104	8-759-929-65	IC LM7912CT	
IC5105	8-759-701-56	IC NJM78M05FA	
IC5106	8-759-701-84	IC NJM7905FA	
IC5107	8-759-701-59	IC NJM78M09FA	
IC5201	8-759-085-67	IC LM339NS	
IC5301	8-759-251-31	IC CA0007AM	
IC5302	8-759-696-71	IC STV9379A	
IC5401	8-759-711-28	IC NJM2058D	
IC5501	8-749-014-67	IC STK392-020	
IC5502	8-749-014-67	IC STK392-020	
IC5703	8-759-711-28	IC NJM2058D	
		<CHIP CONDUCTOR>	
JR5301	1-216-295-91	SHORT 0	
JR5303	1-216-295-91	SHORT 0	
		<COIL>	
L5101	1-406-665-11	INDUCTOR 100UH	
L5105	1-459-111-00	INDUCTOR 10MH	
L5107	1-412-533-21	INDUCTOR 47UH	
L5108	1-412-533-21	INDUCTOR 47UH	
L5109	1-412-519-11	INDUCTOR 3.3UH	
L5111	1-535-303-00	LEAD, JUMPER (5.0MM)	
L5201	1-414-187-11	INDUCTOR 47UH	
L5301	1-412-524-11	INDUCTOR 8.2UH	
L5302	1-535-303-00	LEAD, JUMPER (5.0MM)	
L5303	1-535-303-00	LEAD, JUMPER (5.0MM)	
L5501	1-412-533-21	INDUCTOR 47UH	
L5502	1-412-533-21	INDUCTOR 47UH	
L5503	1-412-533-21	INDUCTOR 47UH	
L5504	1-412-533-21	INDUCTOR 47UH	
		<NEON LAMP>	
NL5101	1-517-778-21	LAMP, NEON	
NL5102	1-517-778-21	LAMP, NEON	
NL5103	1-517-778-21	LAMP, NEON	
NL5402	1-517-778-21	LAMP, NEON	
		<IC LINK>	
PS5101	⚠1-533-590-51	LINK, IC (1A/90V AC, 60V DC)	
PS5501	⚠1-533-597-31	LINK, IC (5A/90V AC, 60V DC)	
PS5502	⚠1-533-597-31	LINK, IC (5A/90V AC, 60V DC)	
PS5503	⚠1-533-597-31	LINK, IC (5A/90V AC, 60V DC)	
PS5504	⚠1-533-597-31	LINK, IC (5A/90V AC, 60V DC)	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
PS5539	⚠1-533-595-21	LINK, IC (3.15A/90V AC, 60V DC)			
PS5540	⚠1-533-595-21	LINK, IC (3.15A/90V AC, 60V DC)			
PS5543	⚠1-533-595-21	LINK, IC (3.15A/90V AC, 60V DC)			
PS5544	⚠1-533-595-21	LINK, IC (3.15A/90V AC, 60V DC)			
PS5549	⚠1-533-595-21	LINK, IC (3.15A/90V AC, 60V DC)			
PS5550	⚠1-533-595-21	LINK, IC (3.15A/90V AC, 60V DC)			
		<TRANSISTOR>			
Q5006	1-801-806-11	TRANSISTOR DTC144EKA			
Q5009	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q5102	8-729-119-80	TRANSISTOR 2SC2688-LK			
Q5104	8-729-051-81	TRANSISTOR 2SC5047-YB			
Q5105	8-729-038-83	TRANSISTOR 2SK2251-01-F19			
Q5106	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q5201	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q5302	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q5303	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q5401	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q5402	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX			
Q5403	1-801-806-11	TRANSISTOR DTC144EKA			
Q5501	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q5502	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q5503	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q5504	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q5505	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q5506	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q5704	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q5705	8-729-053-73	TRANSISTOR 2SC5022			
Q5706	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q5707	8-729-046-80	TRANSISTOR 2SC4634LS-CB11			
Q5710	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q5711	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
		<RESISTOR>			
R5004	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5013	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5023	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5048	1-216-041-00	RES-CHIP	470	5%	1/10W
R5101	1-215-926-00	METAL OXIDE	33K	5%	3W
R5112	1-247-843-11	CARBON	3.3K	5%	1/4W
R5115	1-216-435-11	METAL OXIDE	2.7K	5%	1W
R5119	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R5120	1-216-486-00	METAL OXIDE	8.2K	5%	3W
R5122	1-215-905-11	METAL OXIDE	10	5%	3W
R5136	1-215-443-00	METAL	8.2K	1%	1/4W
R5138	1-215-457-00	METAL	33K	1%	1/4W
R5139	1-216-391-11	METAL OXIDE	1.5	5%	3W
R5140	1-215-449-00	METAL	15K	1%	1/4W
R5141	1-215-911-11	METAL OXIDE	100	5%	3W
R5146	1-215-910-00	METAL OXIDE	68	5%	3W
R5147	1-215-910-00	METAL OXIDE	68	5%	3W
R5148	1-249-377-11	CARBON	0.47	5%	1/4W
R5149	1-247-807-31	CARBON	100	5%	1/4W
R5152	1-216-377-11	METAL OXIDE	4.7	5%	2W
R5153	1-249-379-11	CARBON	0.68	5%	1/4W
R5154	1-260-127-11	CARBON	220K	5%	1/2W
R5155	1-214-909-00	METAL	68K	1%	1/2W
R5156	1-535-303-00	LEAD, JUMPER (5.0MM)			
R5157	1-215-908-00	METAL OXIDE	33	5%	3W (KP-ER43)
R5157	1-216-474-11	METAL OXIDE	82	5%	3W (KP-ER53)
R5158	1-216-349-00	METAL OXIDE	1	5%	1W
R5159	1-215-908-00	METAL OXIDE	33	5%	3W (KP-ER43)
R5159	1-216-474-11	METAL OXIDE	82	5%	3W (KP-ER53)
R5160	1-249-377-11	CARBON	0.47	5%	1/4W
R5161	1-249-377-11	CARBON	0.47	5%	1/4W
R5162	1-216-393-00	METAL OXIDE	2.2	5%	3W
R5163	1-216-392-11	METAL OXIDE	1.8	5%	3W
R5164	1-249-393-11	CARBON	10	5%	1/4W
R5166	1-215-905-11	METAL OXIDE	10	5%	3W
R5169	1-249-424-11	CARBON	3.9K	5%	1/4W
R5171	1-249-429-11	CARBON	10K	5%	1/4W
R5172	1-249-417-11	CARBON	1K	5%	1/4W
R5173	1-215-905-11	METAL OXIDE	10	5%	3W
R5174	1-215-905-11	METAL OXIDE	10	5%	3W
R5175	1-215-905-11	METAL OXIDE	10	5%	3W
R5201	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R5202	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5203	1-215-879-11	METAL OXIDE	47K	5%	1W
R5204	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R5205	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R5206	1-208-837-11	METAL CHIP	200K	0.5%	1/10W
R5209	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R5210	1-216-113-00	RES-CHIP	470K	5%	1/10W
R5211	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5212	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R5213	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5214	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5215	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5216	1-247-895-91	CARBON	470K	5%	1/4W
R5217	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R5218	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5219	1-216-075-00	RES-CHIP	12K	5%	1/10W
R5220	1-216-105-91	RES-CHIP	220K	5%	1/10W
R5221	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R5222	1-216-105-91	RES-CHIP	220K	5%	1/10W
R5223	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5224	1-249-405-11	CARBON	100	5%	1/4W
R5225	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5226	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5227	1-260-135-11	CARBON	1M	5%	1/2W
R5228	1-535-303-00	LEAD, JUMPER (5.0MM)			
R5229	1-216-045-00	RES-CHIP	680	5%	1/10W
R5230	1-216-097-11	RES-CHIP	100K	5%	1/10W
R5231	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5232	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5233	1-247-807-31	CARBON	100	5%	1/4W
R5234	1-216-049-11	RES-CHIP	1K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R5235	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R5236	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5302	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5303	1-216-083-00	RES-CHIP	27K	5%	1/10W
R5304	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5305	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W
R5306	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5307	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5308	1-216-353-00	METAL OXIDE	2.2	5%	1W
R5309	1-216-097-11	RES-CHIP	100K	5%	1/10W
R5310	1-216-353-00	METAL OXIDE	2.2	5%	1W
R5311	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5312	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5313	1-216-083-00	RES-CHIP	27K	5%	1/10W
R5314	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5315	1-215-913-11	METAL OXIDE	220	5%	3W
R5316	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5317	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5318	1-216-097-11	RES-CHIP	100K	5%	1/10W
R5319	1-216-085-91	RES-CHIP	33K	5%	1/10W
R5320	1-249-383-11	CARBON	1.5	5%	1/4W
R5321	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5323	1-216-083-00	RES-CHIP	27K	5%	1/10W
R5324	1-535-303-00	LEAD, JUMPER (5.0MM)			
R5325	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W
R5326	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5328	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5329	1-216-025-11	RES-CHIP	100	5%	1/10W
R5330	1-216-295-91	SHORT	0		
R5331	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5335	1-216-117-00	RES-CHIP	680K	5%	1/10W
R5337	1-216-117-00	RES-CHIP	680K	5%	1/10W
R5338	1-216-295-91	SHORT	0		
R5339	1-247-807-31	CARBON	100	5%	1/4W
R5340	1-249-377-11	CARBON	0.47	5%	1/4W
R5341	1-249-377-11	CARBON	0.47	5%	1/4W
R5344	1-216-117-00	RES-CHIP	680K	5%	1/10W
R5345	1-216-117-00	RES-CHIP	680K	5%	1/10W
R5401	1-216-295-91	SHORT	0		
R5405	1-260-087-11	CARBON	100	5%	1/2W
R5406	1-216-295-91	SHORT	0		
R5408	1-216-295-91	SHORT	0		
R5409	1-216-295-91	SHORT	0		
R5410	1-260-087-11	CARBON	100	5%	1/2W
R5411	1-216-295-91	SHORT	0		
R5412	1-208-812-11	METAL CHIP	18K	0.5%	1/10W
R5415	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R5416	1-216-295-91	SHORT	0		
R5419	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5420	1-216-077-91	RES-CHIP	15K	5%	1/10W
R5421	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5422	1-216-105-91	RES-CHIP	220K	5%	1/10W
R5501	1-247-807-31	CARBON	100	5%	1/4W
R5502	1-247-807-31	CARBON	100	5%	1/4W
R5503	1-247-807-31	CARBON	100	5%	1/4W
R5504	1-247-807-31	CARBON	100	5%	1/4W
R5505	1-247-807-31	CARBON	100	5%	1/4W
R5506	1-247-807-31	CARBON	100	5%	1/4W
R5507	1-247-843-11	CARBON	3.3K	5%	1/4W
R5508	1-247-843-11	CARBON	3.3K	5%	1/4W
R5509	1-247-843-11	CARBON	3.3K	5%	1/4W
R5510	1-247-843-11	CARBON	3.3K	5%	1/4W
R5511	1-249-417-11	CARBON	1K	5%	1/4W
R5512	1-249-417-11	CARBON	1K	5%	1/4W
R5513	1-247-843-11	CARBON	3.3K	5%	1/4W
R5514	1-535-303-00	LEAD, JUMPER (5.0MM)			
R5515	1-247-843-11	CARBON	3.3K	5%	1/4W
R5516	1-535-303-00	LEAD, JUMPER (5.0MM)			
R5517	1-249-417-11	CARBON	1K	5%	1/4W
R5518	1-249-417-11	CARBON	1K	5%	1/4W
R5519	1-249-429-11	CARBON	10K	5%	1/4W
R5520	1-249-429-11	CARBON	10K	5%	1/4W
R5521	1-214-808-11	METAL	4.7	1%	1/2W
R5522	1-214-808-11	METAL	4.7	1%	1/2W
R5523	1-247-807-31	CARBON	100	5%	1/4W
R5524	1-249-429-11	CARBON	10K	5%	1/4W
R5525	1-214-808-11	METAL	4.7	1%	1/2W
R5526	1-247-807-31	CARBON	100	5%	1/4W
R5527	1-214-808-11	METAL	4.7	1%	1/2W
R5528	1-249-429-11	CARBON	10K	5%	1/4W
R5529	1-214-808-11	METAL	4.7	1%	1/2W
R5530	1-214-808-11	METAL	4.7	1%	1/2W
R5531	1-249-417-11	CARBON	1K	5%	1/4W
R5532	1-249-417-11	CARBON	1K	5%	1/4W
R5533	1-214-808-11	METAL	4.7	1%	1/2W
R5534	1-214-808-11	METAL	4.7	1%	1/2W
R5535	1-214-808-11	METAL	4.7	1%	1/2W
R5536	1-214-808-11	METAL	4.7	1%	1/2W
R5537	1-214-808-11	METAL	4.7	1%	1/2W
R5538	1-214-808-11	METAL	4.7	1%	1/2W
R5541	1-214-808-11	METAL	4.7	1%	1/2W
R5542	1-214-808-11	METAL	4.7	1%	1/2W
R5545	1-214-808-11	METAL	4.7	1%	1/2W
R5546	1-214-808-11	METAL	4.7	1%	1/2W
R5547	1-214-808-11	METAL	4.7	1%	1/2W
R5548	1-214-808-11	METAL	4.7	1%	1/2W
R5551	1-214-808-11	METAL	4.7	1%	1/2W
R5552	1-214-808-11	METAL	4.7	1%	1/2W
R5553	1-214-808-11	METAL	4.7	1%	1/2W
R5554	1-214-808-11	METAL	4.7	1%	1/2W
R5555	1-214-808-11	METAL	4.7	1%	1/2W
R5556	1-214-808-11	METAL	4.7	1%	1/2W
R5557	1-214-808-11	METAL	4.7	1%	1/2W
R5558	1-214-808-11	METAL	4.7	1%	1/2W
R5559	1-214-808-11	METAL	4.7	1%	1/2W
R5560	1-214-808-11	METAL	4.7	1%	1/2W
R5561	1-214-808-11	METAL	4.7	1%	1/2W
R5562	1-214-808-11	METAL	4.7	1%	1/2W
R5563	1-249-429-11	CARBON	10K	5%	1/4W
R5564	1-249-429-11	CARBON	10K	5%	1/4W
R5565	1-249-429-11	CARBON	10K	5%	1/4W
R5566	1-249-429-11	CARBON	10K	5%	1/4W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

• The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R5567	1-249-429-11	CARBON	10K	5%	1/4W
R5568	1-249-429-11	CARBON	10K	5%	1/4W
R5569	1-249-429-11	CARBON	10K	5%	1/4W
R5570	1-249-429-11	CARBON	10K	5%	1/4W
R5723	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5724	1-247-807-31	CARBON	100	5%	1/4W
R5725	1-216-093-91	RES-CHIP	68K	5%	1/10W
R5726	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R5727	1-216-085-91	RES-CHIP	33K	5%	1/10W
R5728	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R5729	1-216-025-11	RES-CHIP	100	5%	1/10W
R5730	1-249-431-11	CARBON	15K	5%	1/4W
R5731	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5732	1-249-441-11	CARBON	100K	5%	1/4W
R5734	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R5735	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5737	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5738	1-249-405-11	CARBON	100	5%	1/4W
R5739	1-216-025-11	RES-CHIP	100	5%	1/10W
R5740	1-215-917-11	METAL OXIDE	1K	5%	3W
R5744	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5745	1-216-099-00	RES-CHIP	120K	5%	1/10W
R5746	1-215-925-11	METAL OXIDE	22K	5%	3W
R5747	1-215-925-11	METAL OXIDE	22K	5%	3W
R5748	1-216-041-00	RES-CHIP	470	5%	1/10W
R5749	1-216-025-11	RES-CHIP	100	5%	1/10W
R5750	1-216-025-11	RES-CHIP	100	5%	1/10W
R5751	1-260-328-11	CARBON	1K	5%	1/2W
R5753	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5754	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5755	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5756	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5757	1-219-752-11	CARBON	100K	5%	1/2W
R5758	1-215-925-11	METAL OXIDE	22K	5%	3W
R5759	1-215-925-11	METAL OXIDE	22K	5%	3W
R5762	1-219-743-11	CARBON	100	5%	1/2W
R5763	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5768	1-249-429-11	CARBON	10K	5%	1/4W
R5769	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5770	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5771	1-216-097-11	RES-CHIP	100K	5%	1/10W
R5772	1-249-429-11	CARBON	10K	5%	1/4W
⧓ R9901	⚠	METAL			
		<SPARK GAP>			
SG5702	1-519-466-11	GAP, SPARK			
		<TRANSFORMER>			
T5101	1-437-209-11	TRANSFORMER, HORIZONTAL DRIVE			
T5102	1-419-553-11	COIL,HORIZONTAL LINEARITY(HLC)			
T5103	⚠1-453-335-11	FBT ASSY (NX-4010//M3P4)			
T5104	1-435-439-11	TRANSFORMER, FERRITE (PMT)			

REF.NO.	PART NO.	DESCRIPTION			REMARK
**********					
	* A-1316-528-A	G BOARD, COMPLETE (ER43M31/M90, ER53M31/M90)			
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	1-533-725-11	HOLDER, FUSE			
	* 4-374-846-01	COVER, CAPACITOR, CAP TYPE			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C6000	⚠1-104-708-11	MYLAR	0.47UF	20.00%	250V
C6003	⚠1-104-706-11	MYLAR	0.22UF	20.00%	250V
C6009	⚠1-104-706-11	MYLAR	0.22UF	20.00%	250V
C6010	⚠1-119-894-51	CERAMIC	2200PF	20.00%	250V
C6011	⚠1-119-894-51	CERAMIC	2200PF	20.00%	250V
C6013	⚠1-161-964-91	CERAMIC	0.0047UF		250V
C6015	⚠1-161-964-91	CERAMIC	0.0047UF		250V
C6017	⚠1-161-964-51	CERAMIC	0.0047UF		250V
C6018	⚠1-161-964-51	CERAMIC	0.0047UF		250V
C6020	1-126-968-11	ELECT	100UF	20.00%	50V
C6022	1-131-940-11	ELECT	1200UF	20%	250V
C6023	1-131-940-11	ELECT	1200UF	20%	250V
C6024	1-117-227-11	MYLAR	1UF	10.00%	450V
C6025	1-115-389-11	FILM	0.018UF	3.00%	800V
C6026	1-125-969-91	CERAMIC	680PF	10.00%	1KV
C6027	1-115-824-11	ELECT	18UF	20.00%	50V
C6028	1-104-588-11	FILM	0.0082UF	2.50%	1.25KV
C6029	1-102-106-00	CERAMIC	100PF	10.00%	50V
C6030	1-136-189-00	MYLAR	0.1UF	10.00%	250V
C6031	1-125-969-91	CERAMIC	680PF	10.00%	1KV
C6032	1-115-405-11	FILM	0.039UF	3.00%	1KV
C6033	1-126-963-11	ELECT	4.7UF	20.00%	50V
C6034	1-130-029-00	FILM	8200PF	2.00%	50V
C6035	1-104-665-11	ELECT	100UF	20.00%	25V
C6036	1-107-906-11	ELECT	10UF	20.00%	50V
C6037	1-137-150-11	MYLAR	0.01UF	5.00%	50V
C6038	1-104-588-11	FILM	0.0082UF	2.50%	1.25KV
C6039	1-115-389-11	FILM	0.018UF	3.00%	800V
C6040	1-117-227-11	MYLAR	1UF	10.00%	450V
C6041	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6042	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6044	1-117-703-11	CERAMIC	0.0047UF	99%	250V
C6100	! 1-161-964-51	CERAMIC	0.0047UF		250V
C6101	1-107-679-91	ELECT	10UF	20.00%	450V
C6102	! 1-161-964-51	CERAMIC	0.0047UF		250V
C6103	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C6104	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6105	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6106	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C6107	1-137-605-11	MYLAR	0.01UF	10.00%	250V
C6109	1-126-965-91	ELECT	22UF	20.00%	50V
C6110	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6111	! 1-161-964-51	CERAMIC	0.0047UF		250V
C6300	1-101-810-00	CERAMIC	100PF	5.00%	500V
C6301	1-101-810-00	CERAMIC	100PF	5.00%	500V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION				REMARK
C6302	1-102-114-00	CERAMIC	470PF	10.00%	50V	
C6303	1-102-114-00	CERAMIC	470PF	10.00%	50V	
C6306	1-101-810-00	CERAMIC	100PF	5.00%	500V	
C6307	1-126-943-11	ELECT	2200UF	20.00%	25V	
C6308	1-126-937-11	ELECT	4700UF	20.00%	16V	
C6309	1-101-810-00	CERAMIC	100PF	5.00%	500V	
C6310	1-101-810-00	CERAMIC	100PF	5.00%	500V	
C6311	1-104-665-11	ELECT	100UF	20.00%	25V	
C6312	1-104-665-11	ELECT	100UF	20.00%	25V	
C6313	1-126-960-11	ELECT	1UF	20.00%	50V	
C6314	1-128-567-51	ELECT	1000UF	20.00%	100V	
C6315	1-128-567-51	ELECT	1000UF	20.00%	100V	
C6317	1-109-954-11	ELECT	0.47UF	20.00%	160V	
C6321	1-128-549-11	ELECT	3300UF	20.00%	35V	
C6322	1-128-549-11	ELECT	3300UF	20.00%	35V	
C6323	1-128-549-11	ELECT	3300UF	20.00%	35V	
C6324	1-128-549-11	ELECT	3300UF	20.00%	35V	
C6325	1-126-935-11	ELECT	470UF	20.00%	6.3V	
C6327	1-126-968-11	ELECT	100UF	20.00%	50V	
C6328	1-126-968-11	ELECT	100UF	20.00%	50V	
C6329	1-126-943-11	ELECT	2200UF	20.00%	25V	
C6330	1-126-943-11	ELECT	2200UF	20.00%	25V	
C6331	1-107-641-11	ELECT	220UF	20.00%	160V	
C6332	1-104-665-11	ELECT	100UF	20.00%	25V	
C6333	1-104-665-11	ELECT	100UF	20.00%	25V	
C6334	1-126-940-11	ELECT	330UF	20.00%	25V	
C6335	1-126-967-11	ELECT	47UF	20.00%	50V	
C6337	1-101-810-00	CERAMIC	100PF	5.00%	500V	
C6338	1-162-117-00	CERAMIC	100PF	10.00%	500V	
C6339	1-104-987-11	MYLAR	0.001UF	10.00%	200V	
C6341	1-137-150-11	MYLAR	0.01UF	5.00%	50V	
C6342	1-130-495-00	MYLAR	0.1UF	5.00%	50V	

<CONNECTOR>

CN6002	1-695-915-11	TAB (CONTACT)	
CN6004	1-580-843-11	PIN, CONNECTOR (POWER)	
CN6006 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN6007 *	1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
CN6011 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P	
CN6300 *	1-564-508-11	PLUG, CONNECTOR 5P	
CN6301 *	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CN6302 *	1-764-333-11	PLUG, CONNECTOR 10P	
CN6303 *	1-764-333-11	PLUG, CONNECTOR 10P	
CN6304 *	1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
CN6306	1-695-915-11	TAB (CONTACT)	
CN6307	1-695-915-11	TAB (CONTACT)	
CN6308	1-695-915-11	TAB (CONTACT)	

<DIODE>

D6010	8-719-988-61	DIODE	1SS355TE-17
D6015	⚠8-719-510-53	DIODE	D4SB60L
D6017	8-719-063-73	DIODE	D1NL20U-TR
D6019	8-719-510-02	DIODE	D1NS4
D6020	8-719-029-04	DIODE	D5L60
D6021	8-719-110-36	DIODE	RD13ES-B2
D6021	8-719-921-88	DIODE	MTZJ-13B
D6022	8-719-979-64	DIODE	UF4005PKG23
D6023	8-719-979-64	DIODE	UF4005PKG23
D6100	⚠8-719-068-00	DIODE	ERC04-06SE
D6101	8-719-110-49	DIODE	RD18ES-B2
D6102	8-719-083-83	DIODE	UDZS-TE17-15B
D6103	8-719-988-61	DIODE	1SS355TE-17
D6104	⚠8-719-068-00	DIODE	ERC04-06SE
D6105	8-719-948-45	DIODE	ERA22-08
D6106	⚠8-719-068-00	DIODE	ERC04-06SE
D6108	8-719-510-48	DIODE	D1N20R
D6300	8-719-057-96	DIODE	D10SC6M-4012
D6301	8-719-510-12	DIODE	D10SC4M
D6302	8-719-312-47	DIODE	RBA-406B
D6303	8-719-063-73	DIODE	D1NL20U-TR
D6304	8-719-050-18	DIODE	D4SBL20U
D6305	8-719-988-61	DIODE	1SS355TE-17
D6306	8-719-988-61	DIODE	1SS355TE-17
D6307	8-719-988-61	DIODE	1SS355TE-17
D6308	8-719-988-31	DIODE	D10SC6MR
D6309	8-719-057-96	DIODE	D10SC6M-4012
D6310	8-719-052-91	DIODE	D4SBS4-F
D6311	8-719-988-61	DIODE	1SS355TE-17
D6312	8-719-988-61	DIODE	1SS355TE-17
D6315	8-719-988-61	DIODE	1SS355TE-17
D6316	8-719-988-61	DIODE	1SS355TE-17
D6317	8-719-988-61	DIODE	1SS355TE-17
D6318	8-719-110-36	DIODE	RD13ES-B2
D6319	8-719-083-60	DIODE	UDZSTE-174.7B
D6320	8-719-083-60	DIODE	UDZSTE-174.7B
D6323	8-719-032-12	DIODE	D1NS6

<FUSE>

F6001	⚠1-576-232-11	FUSE	(H.B.C.)

<FERRITBEAD>

FB6002	1-412-911-11	FERRITE	0UH
FB6103	⚠1-412-911-11	FERRITE	0UH
FB6301	1-412-911-11	FERRITE	0UH
FB6302	1-412-911-11	FERRITE	0UH
FB6303	1-412-911-11	FERRITE	0UH
FB6304	1-412-911-11	FERRITE	0UH
FB6305	1-412-911-11	FERRITE	0UH
FB6306	1-412-911-11	FERRITE	0UH
FB6307	1-535-303-00	LEAD, JUMPER	(5.0MM)
FB6308	1-535-303-00	LEAD, JUMPER	(5.0MM)
FB6309	1-412-911-11	FERRITE	0UH
FB6310	1-412-911-11	FERRITE	0UH

<IC>

IC6002	⚠8-749-924-35	IC	ON3171-R

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION			REMARK
IC6004	8-749-016-66	IC MCR5152			
IC6007	⚠8-749-924-35	IC ON3171-R			
IC6301	8-749-012-13	IC DM-58			
IC6302	8-759-663-29	IC MM1476AF(TP)			
IC6303	8-759-198-31	IC UPC1093J-1-T			
IC6304	8-759-198-31	IC UPC1093J-1-T			
		<COIL>			
L6303	1-412-525-31	INDUCTOR	10UH		
L6304	1-406-659-11	INDUCTOR	10UH		
L6307	1-412-525-31	INDUCTOR	10UH		
L6308	1-412-525-31	INDUCTOR	10UH		
L6309	1-412-525-31	INDUCTOR	10UH		
L6310	1-412-525-31	INDUCTOR	10UH		
L6311	1-412-525-31	INDUCTOR	10UH		
L6312	1-535-303-00	LEAD, JUMPER (5.0MM)			
L6313	1-535-303-00	LEAD, JUMPER (5.0MM)			
L6314	1-412-524-11	INDUCTOR	8.2UH		
L6315	1-412-524-11	INDUCTOR	8.2UH		
		<PROTECTOR>			
PS6300	⚠1-801-549-21	PROTECTOR, MODULE			
PS6301	⚠1-801-549-21	PROTECTOR, MODULE			
PS6302	⚠1-801-549-21	PROTECTOR, MODULE			
PS6303	⚠1-801-549-21	PROTECTOR, MODULE			
PS6304	1-535-303-00	LEAD, JUMPER (5.0MM)			
PS6305	1-535-303-00	LEAD, JUMPER (5.0MM)			
PS6306	⚠1-801-550-21	PROTECTOR, MODUL			
PS6307	⚠1-801-550-21	PROTECTOR, MODUL			
PS6310	⚠1-801-550-21	PROTECTOR, MODUL			
PS6311	⚠1-801-550-21	PROTECTOR, MODUL			
		<TRANSISTOR>			
Q6004	8-729-140-93	TRANSISTOR 2SB733-34			
Q6100	8-729-046-40	TRANSISTOR 2SK2663			
Q6102	8-729-023-22	TRANSISTOR 2SD2114K			
Q6300	8-729-023-22	TRANSISTOR 2SD2114K			
Q6301	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q6302	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q6303	8-729-820-82	TRANSISTOR 2SA1208-T			
Q6304	8-729-026-39	TRANSISTOR 2SA933AS-QT			
		<RESISTOR>			
R6000	1-260-131-11	CARBON	470K	5%	1/2W
R6001	1-260-131-11	CARBON	470K	5%	1/2W
R6002	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6003	⚠1-219-759-11	CARBON	1M	5%	1/2W
R6026	⚠1-218-265-11	METAL	8.2M	5%	1W
R6035	⚠1-205-998-11	CEMENTED	1	5%	10W
R6043	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6049	⚠1-205-998-11	CEMENTED	1	5%	10W
R6052	1-249-417-11	CARBON	1K	5%	1/4W
R6053	1-216-660-11	METAL CHIP	2.4K	0.5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R6054	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R6055	1-208-805-11	METAL CHIP	9.1K	0.5%	1/10W
R6056	1-217-625-00	METAL	0.05	10%	2W
R6057	1-215-477-00	METAL	220K	1%	1/4W
R6058	1-215-477-00	METAL	220K	1%	1/4W
R6059	1-215-477-00	METAL	220K	1%	1/4W
R6060	1-219-512-11	CARBON	2.2M	5%	1/2W
R6061	⚠1-220-886-11	FUSIBLE	0.1	10%	1W
R6062	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W
R6065	1-219-512-11	CARBON	2.2M	5%	1/2W
R6067	1-249-397-11	CARBON	22	5%	1/4W
R6068	⚠1-205-998-11	CEMENTED	1	5%	10W
R6069	⚠1-205-998-11	CEMENTED	1	5%	10W
R6072	1-249-417-11	CARBON	1K	5%	1/4W
R6074	1-535-143-71	LEAD, JUMPER (7.5MM)			
R6075	1-535-143-71	LEAD, JUMPER (7.5MM)			
R6076	1-249-389-11	CARBON	4.7	5%	1/4W
R6079	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6100	1-260-298-51	CARBON	3.3	5%	1/2W
R6101	1-216-045-00	RES-CHIP	680	5%	1/10W
R6102	1-249-389-11	CARBON	4.7	5%	1/4W
R6103	1-216-009-91	RES-CHIP	22	5%	1/10W
R6104	1-240-205-11	CARBON	22M	5%	1/2W
R6105	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6106	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6107	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6108	1-215-493-00	METAL	1M	1%	1/4W
R6109	1-216-041-00	RES-CHIP	470	5%	1/10W
R6300	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6301	1-249-413-11	CARBON	470	5%	1/4W
R6302	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6304	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6305	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6306	1-216-041-00	RES-CHIP	470	5%	1/10W
R6307	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6308	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6309	1-249-417-11	CARBON	1K	5%	1/4W
R6310	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6311	1-215-477-00	METAL	220K	1%	1/4W
R6312	1-249-417-11	CARBON	1K	5%	1/4W
R6313	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6314	1-216-385-11	METAL OXIDE	0.47	5%	3W
R6316	1-215-477-00	METAL	220K	1%	1/4W
R6317	1-249-417-11	CARBON	1K	5%	1/4W
R6318	1-215-453-00	METAL	22K	1%	1/4W
R6319	1-215-476-00	METAL	200K	1%	1/4W
R6320	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6321	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R6322	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6323	1-216-041-00	RES-CHIP	470	5%	1/10W
R6324	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6325	1-208-819-11	METAL CHIP	36K	0.5%	1/10W
R6326	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R6327	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R6328	1-215-906-11	METAL OXIDE	15	5%	3W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R6329	1-208-807-11	METAL CHIP	11K	0.5%	1/10W
R6333	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6334	1-216-041-00	RES-CHIP	470	5%	1/10W
R6335	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R6336	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
		<RELAY>			
RY6000	⚠1-755-352-11	RELAY, AC POWER			
		<TUNER>			
T6001	⚠1-424-505-11	TRANSFORMER, LINE FILTER			
T6002	⚠1-424-505-11	TRANSFORMER, LINE FILTER			
T6003	⚠1-431-445-11	TRANSFORMER, CONVERTER (PFT)			
T6004	⚠1-435-443-11	TRANSFORMER, CONVERTER (PIT)			
T6005	⚠1-435-445-11	TRANSFORMER, CONVERTER (PIT)			
T6100	⚠1-433-844-11	TRANSFORMER, CONVERTER			
		<THERMISTOR>			
TH6100	1-803-586-11	THERMISTOR, NTC			
		<VARISTOR>			
VD6001	⚠1-803-830-31	VARISTOR (ERZV14D621)			
VD6002	⚠1-803-830-31	VARISTOR (ERZV14D621)			
**********					
	* A-1316-514-A	G1 BOARD, COMPLETE (ER43M61/M91, ER53M61/M91)			
		**********			
	1-533-725-11	HOLDER, FUSE			
	* 4-374-846-01	COVER, CAPACITOR, CAP TYPE			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C6000	⚠1-104-708-11	MYLAR	0.47UF	20.00%	250V
C6001	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C6003	⚠1-104-706-11	MYLAR	0.22UF	20.00%	250V
C6006	1-126-961-11	ELECT	2.2UF	20.00%	50V
C6007	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C6008	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C6009	⚠1-104-706-11	MYLAR	0.22UF	20.00%	250V
C6010	⚠1-119-894-51	CERAMIC	2200PF	20.00%	250V
C6011	⚠1-119-894-51	CERAMIC	2200PF	20.00%	250V
C6013	⚠1-161-964-91	CERAMIC	0.0047UF		250V
C6014	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6015	⚠1-161-964-91	CERAMIC	0.0047UF		250V
C6016	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C6017	⚠1-161-964-51	CERAMIC	0.0047UF		250V
C6018	⚠1-161-964-51	CERAMIC	0.0047UF		250V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C6019	1-126-961-11	ELECT	2.2UF	20.00%	50V
C6020	1-126-968-11	ELECT	100UF	20.00%	50V
C6022	1-109-834-11	ELECT(BLOCK)	1500UF	20.00%	250V
C6023	1-109-834-11	ELECT(BLOCK)	1500UF	20.00%	250V
C6025	1-115-389-11	FILM	0.018UF	3.00%	800V
C6026	1-125-969-91	CERAMIC	680PF	10.00%	1KV
C6027	1-115-824-11	ELECT	18UF	20.00%	50V
C6028	1-104-588-11	FILM	0.0082UF	2.50%	1.25KV
C6029	1-102-106-00	CERAMIC	100PF	10.00%	50V
C6030	1-136-189-00	MYLAR	0.1UF	10.00%	250V
C6031	1-125-969-91	CERAMIC	680PF	10.00%	1KV
C6033	1-126-963-11	ELECT	4.7UF	20.00%	50V
C6034	1-130-029-00	FILM	8200PF	2.00%	50V
C6035	1-104-665-11	ELECT	100UF	20.00%	25V
C6036	1-107-906-11	ELECT	10UF	20.00%	50V
C6037	1-137-150-11	MYLAR	0.01UF	5.00%	50V
C6038	1-104-588-11	FILM	0.0082UF	2.50%	1.25KV
C6039	1-115-389-11	FILM	0.018UF	3.00%	800V
C6041	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6042	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6043	1-104-663-11	ELECT	33UF	20.00%	16V
C6044	1-117-703-11	CERAMIC	0.0047UF	99%	250V
C6045	1-107-675-11	ELECT	1UF	20.00%	450V
C6046	1-107-675-11	ELECT	1UF	20.00%	450V
C6100	⚠1-161-964-51	CERAMIC	0.0047UF		250V
C6101	1-107-680-91	ELECT	22UF	20.00%	450V
C6102	⚠1-161-964-51	CERAMIC	0.0047UF		250V
C6103	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C6104	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6105	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6106	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6107	1-137-605-11	MYLAR	0.01UF	10.00%	250V
C6108	1-161-964-51	CERAMIC	0.0047UF		250V
C6109	1-104-665-11	ELECT	100UF	20.00%	25V
C6110	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6111	⚠1-161-964-51	CERAMIC	0.0047UF		250V
C6300	1-101-810-00	CERAMIC	100PF	5.00%	500V
C6301	1-101-810-00	CERAMIC	100PF	5.00%	500V
C6302	1-102-114-00	CERAMIC	470PF	10.00%	50V
C6303	1-102-114-00	CERAMIC	470PF	10.00%	50V
C6306	1-101-810-00	CERAMIC	100PF	5.00%	500V
C6307	1-126-943-11	ELECT	2200UF	20.00%	25V
C6308	1-126-937-11	ELECT	4700UF	20.00%	16V
C6309	1-101-810-00	CERAMIC	100PF	5.00%	500V
C6310	1-101-810-00	CERAMIC	100PF	5.00%	500V
C6311	1-104-665-11	ELECT	100UF	20.00%	25V
C6312	1-104-665-11	ELECT	100UF	20.00%	25V
C6313	1-126-960-11	ELECT	1UF	20.00%	50V
C6314	1-128-567-51	ELECT	1000UF	20.00%	100V
C6315	1-128-567-51	ELECT	1000UF	20.00%	100V
C6317	1-109-954-11	ELECT	0.47UF	20.00%	160V
C6321	1-128-549-11	ELECT	3300UF	20.00%	35V
C6322	1-128-549-11	ELECT	3300UF	20.00%	35V
C6323	1-128-549-11	ELECT	3300UF	20.00%	35V
C6324	1-128-549-11	ELECT	3300UF	20.00%	35V
C6325	1-126-935-11	ELECT	470UF	20.00%	6.3V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
C6327	1-126-968-11	ELECT 100UF 20.00% 50V	
C6328	1-126-968-11	ELECT 100UF 20.00% 50V	
C6329	1-126-943-11	ELECT 2200UF 20.00% 25V	
C6330	1-126-943-11	ELECT 2200UF 20.00% 25V	
C6331	1-107-641-11	ELECT 220UF 20.00% 160V	
C6332	1-104-665-11	ELECT 100UF 20.00% 25V	
C6333	1-104-665-11	ELECT 100UF 20.00% 25V	
C6334	1-126-940-11	ELECT 330UF 20.00% 25V	
C6335	1-126-967-11	ELECT 47UF 20.00% 50V	
C6337	1-101-810-00	CERAMIC 100PF 5.00% 500V	
C6338	1-162-117-00	CERAMIC 100PF 10.00% 500V	
C6339	1-104-987-11	MYLAR 0.001UF 10.00% 200V	
C6340	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
		<CONNECTOR>	
CN6002	1-695-915-11	TAB (CONTACT)	
CN6004 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN6006 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN6007 *	1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
CN6011 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P	
CN6300 *	1-564-508-11	PLUG, CONNECTOR 5P	
CN6301 *	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CN6302 *	1-764-333-11	PLUG, CONNECTOR 10P	
CN6303 *	1-764-333-11	PLUG, CONNECTOR 10P	
CN6304 *	1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
CN6306	1-695-915-11	TAB (CONTACT)	
CN6307	1-695-915-11	TAB (CONTACT)	
CN6308	1-695-915-11	TAB (CONTACT)	
		<DIODE>	
D6000	8-719-052-90	DIODE D1NL40-TA2	
D6001	8-719-052-90	DIODE D1NL40-TA2	
D6002	8-719-988-61	DIODE 1SS355TE-17	
D6003	8-719-083-82	DIODE UDZS-TE17-12B	
D6004	8-719-991-33	DIODE 1SS133T-77	
D6005	8-719-988-61	DIODE 1SS355TE-17	
D6006	8-719-988-61	DIODE 1SS355TE-17	
D6007	8-719-988-61	DIODE 1SS355TE-17	
D6008	8-719-991-33	DIODE 1SS133T-77	
D6009	8-719-083-82	DIODE UDZS-TE17-12B	
D6010	8-719-988-61	DIODE 1SS355TE-17	
D6011	8-719-988-61	DIODE 1SS355TE-17	
D6015	⚠8-719-022-99	DIODE D6SB60L	
D6017	8-719-063-73	DIODE D1NL20U-TR	
D6018	1-535-303-00	LEAD, JUMPER (5.0MM)	
D6019	8-719-510-02	DIODE D1NS4	
D6021	8-719-110-36	DIODE RD13ES-B2	
D6022	8-719-979-64	DIODE UF4005PKG23	
D6023	8-719-979-64	DIODE UF4005PKG23	
D6024	8-719-988-61	DIODE 1SS355TE-17	
D6025	8-719-988-61	DIODE 1SS355TE-17	
D6100	⚠8-719-077-76	DIODE D2SB60A-F04	
D6101	8-719-068-00	DIODE ERC04-06SE	
D6102	8-719-083-83	DIODE UDZS-TE17-15B	
D6103	8-719-988-61	DIODE 1SS355TE-17	
D6105	8-719-948-45	DIODE ERA22-08	
D6108	8-719-063-73	DIODE D1NL20U-TR	
D6300	8-719-057-96	DIODE D10SC6M-4012	
D6301	8-719-510-12	DIODE D10SC4M	
D6302	8-719-312-47	DIODE RBA-406B	
D6304	8-719-050-18	DIODE D4SBL20U	
D6305	8-719-988-61	DIODE 1SS355TE-17	
D6307	8-719-988-61	DIODE 1SS355TE-17	
D6308	8-719-988-31	DIODE D10SC6MR	
D6309	8-719-057-96	DIODE D10SC6M-4012	
D6310	8-719-052-91	DIODE D4SBS4-F	
D6312	8-719-988-61	DIODE 1SS355TE-17	
D6315	8-719-988-61	DIODE 1SS355TE-17	
D6316	8-719-988-61	DIODE 1SS355TE-17	
D6317	8-719-988-61	DIODE 1SS355TE-17	
D6318	8-719-110-36	DIODE RD13ES-B2	
D6319	8-719-083-60	DIODE UDZSTE-174.7B	
D6320	8-719-083-60	DIODE UDZSTE-174.7B	
D6323	8-719-032-12	DIODE D1NS6	
		<FUSE>	
F6001	⚠1-532-506-51	FUSE	
		<FERRITBEAD>	
FB6002	1-412-911-11	FERRITE 0UH	
FB6101	⚠1-412-911-11	FERRITE 0UH	
FB6103	⚠1-412-911-11	FERRITE 0UH	
FB6301	1-412-911-11	FERRITE 0UH	
FB6302	1-412-911-11	FERRITE 0UH	
FB6303	1-412-911-11	FERRITE 0UH	
FB6304	1-412-911-11	FERRITE 0UH	
FB6305	1-412-911-11	FERRITE 0UH	
FB6306	1-412-911-11	FERRITE 0UH	
FB6307	1-535-303-00	LEAD, JUMPER (5.0MM)	
FB6308	1-535-303-00	LEAD, JUMPER (5.0MM)	
FB6309	1-412-911-11	FERRITE 0UH	
FB6310	1-412-911-11	FERRITE 0UH	
		<IC>	
IC6000	8-759-198-31	IC UPC1093J-1-T	
IC6001	8-759-133-90	IC UPC339C	
IC6002	⚠8-749-924-35	IC ON3171-R	
IC6003	⚠8-749-924-35	IC ON3171-R	
IC6004	8-749-016-66	IC MCR5152	
IC6005	⚠8-749-924-35	IC ON3171-R	
IC6006	8-759-198-31	IC UPC1093J-1-T	
IC6007	⚠8-749-924-35	IC ON3171-R	
IC6301	8-749-012-13	IC DM-58	
IC6302	8-759-663-29	IC MM1476AF(TP)	
IC6303	8-759-198-31	IC UPC1093J-1-T	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
	<COIL>				
L6303	1-412-525-31	INDUCTOR	10UH		
L6304	1-406-659-11	INDUCTOR	10UH		
L6307	1-412-525-31	INDUCTOR	10UH		
L6308	1-412-525-31	INDUCTOR	10UH		
L6309	1-412-525-31	INDUCTOR	10UH		
L6310	1-412-525-31	INDUCTOR	10UH		
L6311	1-412-525-31	INDUCTOR	10UH		
L6312	1-535-303-00	LEAD, JUMPER (5.0MM)			
L6313	1-535-303-00	LEAD, JUMPER (5.0MM)			
L6314	1-412-524-11	INDUCTOR	8.2UH		
L6315	1-412-524-11	INDUCTOR	8.2UH		
	<PROTECTOR>				
PS6300	⚠1-801-549-21	PROTECTOR, MODULE			
PS6301	⚠1-801-549-21	PROTECTOR, MODULE			
PS6302	⚠1-801-549-21	PROTECTOR, MODULE			
PS6303	⚠1-801-549-21	PROTECTOR, MODULE			
PS6306	⚠1-801-550-21	PROTECTOR, MODUL			
PS6307	⚠1-801-550-21	PROTECTOR, MODUL			
PS6310	⚠1-801-550-21	PROTECTOR, MODUL			
PS6311	⚠1-801-550-21	PROTECTOR, MODUL			
	<TRANSISTOR>				
Q6000	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q6002	8-729-140-97	TRANSISTOR 2SB734-34			
Q6003	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q6004	8-729-140-93	TRANSISTOR 2SB733-34			
Q6005	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q6100	8-729-046-40	TRANSISTOR 2SK2663			
Q6102	8-729-023-22	TRANSISTOR 2SD2114K			
Q6300	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q6301	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q6302	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q6303	8-729-820-82	TRANSISTOR 2SA1208-T			
	<RESISTOR>				
R6000	1-260-131-11	CARBON	470K	5%	1/2W
R6001	1-260-131-11	CARBON	470K	5%	1/2W
R6002	1-202-981-11	CEMENTED	0.82	5%	20W
R6003	⚠1-219-759-11	CARBON	1M	5%	1/2W
R6004	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6005	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6006	1-208-832-11	METAL CHIP	120K	0.5%	1/10W
R6007	1-208-827-11	METAL CHIP	75K	0.5%	1/10W
R6008	1-215-489-00	METAL	680K	1%	1/4W
R6009	1-215-489-00	METAL	680K	1%	1/4W
R6010	1-215-489-00	METAL	680K	1%	1/4W
R6011	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R6012	1-208-832-11	METAL CHIP	120K	0.5%	1/10W
R6013	1-215-489-00	METAL	680K	1%	1/4W
R6014	1-215-489-00	METAL	680K	1%	1/4W
R6015	1-215-489-00	METAL	680K	1%	1/4W
R6016	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6017	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R6018	1-208-844-11	METAL CHIP	390K	0.5%	1/10W
R6019	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6020	1-208-827-11	METAL CHIP	75K	0.5%	1/10W
R6021	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R6022	1-208-846-11	METAL CHIP	470K	0.5%	1/10W
R6023	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6024	1-208-846-11	METAL CHIP	470K	0.5%	1/10W
R6025	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6026	⚠1-218-265-11	METAL	8.2M	5%	1W
R6027	1-249-389-11	CARBON	4.7	5%	1/4W
R6028	1-535-143-71	LEAD, JUMPER (7.5MM)			
R6029	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6030	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6031	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6032	1-535-143-71	LEAD, JUMPER (7.5MM)			
R6033	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6036	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R6038	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6041	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R6042	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R6043	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6044	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6045	1-208-819-11	METAL CHIP	36K	0.5%	1/10W
R6046	1-215-489-00	METAL	680K	1%	1/4W
R6047	1-215-489-00	METAL	680K	1%	1/4W
R6048	1-215-489-00	METAL	680K	1%	1/4W
R6050	1-205-943-11	CEMENTED	1	5%	20W
R6051	1-208-824-11	METAL CHIP	56K	0.5%	1/10W
R6052	1-249-417-11	CARBON	1K	5%	1/4W
R6053	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W
R6054	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R6055	1-208-805-11	METAL CHIP	9.1K	0.5%	1/10W
R6056	1-217-625-00	METAL	0.05	10%	2W
R6057	1-215-477-00	METAL	220K	1%	1/4W
R6058	1-215-477-00	METAL	220K	1%	1/4W
R6059	1-215-477-00	METAL	220K	1%	1/4W
R6060	1-219-512-11	CARBON	2.2M	5%	1/2W
R6061	⚠1-220-886-11	FUSIBLE	0.1	10%	1W
R6062	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R6065	1-219-512-11	CARBON	2.2M	5%	1/2W
R6067	1-249-397-11	CARBON	22	5%	1/4W
R6071	1-202-981-11	CEMENTED	0.82	5%	20W
R6072	1-249-417-11	CARBON	1K	5%	1/4W
R6074	1-535-143-71	LEAD, JUMPER (7.5MM)			
R6075	1-535-143-71	LEAD, JUMPER (7.5MM)			
R6076	1-249-389-11	CARBON	4.7	5%	1/4W
R6077	1-216-689-11	RES-CHIP	39K	5%	1/10W
R6078	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6079	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6100	1-260-298-51	CARBON	3.3	5%	1/2W
R6101	1-216-045-00	RES-CHIP	680	5%	1/10W
R6102	1-249-389-11	CARBON	4.7	5%	1/4W
R6103	1-216-009-91	RES-CHIP	22	5%	1/10W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

G1 B3

REF.NO.	PART NO.	DESCRIPTION			REMARK
R6104	1-240-205-11	CARBON	22M	5%	1/2W
R6105	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6106	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6107	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6108	1-215-493-00	METAL	1M	1%	1/4W
R6109	1-216-025-11	RES-CHIP	100	5%	1/10W
R6300	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6301	1-249-413-11	CARBON	470	5%	1/4W
R6302	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6304	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6305	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6306	1-216-041-00	RES-CHIP	470	5%	1/10W
R6307	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6308	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6309	1-249-417-11	CARBON	1K	5%	1/4W
R6310	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6311	1-215-477-00	METAL	220K	1%	1/4W
R6312	1-249-417-11	CARBON	1K	5%	1/4W
R6313	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6314	1-216-385-11	METAL OXIDE	0.47	5%	3W
R6316	1-215-477-00	METAL	220K	1%	1/4W
R6317	1-249-417-11	CARBON	1K	5%	1/4W
R6318	1-215-453-00	METAL	22K	1%	1/4W
R6319	1-215-476-00	METAL	200K	1%	1/4W
R6320	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6321	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R6322	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6323	1-216-041-00	RES-CHIP	470	5%	1/10W
R6324	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6325	1-208-819-11	METAL CHIP	36K	0.5%	1/10W
R6326	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R6328	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6329	1-216-041-00	RES-CHIP	470	5%	1/10W
R6330	1-208-813-11	METAL CHIP	20K	0.5%	1/10W
R6331	1-535-303-00	LEAD, JUMPER (5.0MM)			
R6332	1-208-819-11	METAL CHIP	36K	0.5%	1/10W

<RELAY>

RY6000	⚠1-755-357-11	RELAY, AC POWER
RY6001	⚠1-755-357-11	RELAY, AC POWER

<TRANSFORMER>

T6001	⚠1-424-248-11	TRANSFORMER, LINE FILTER
T6002	⚠1-424-248-11	TRANSFORMER, LINE FILTER
T6004	⚠1-435-443-11	TRANSFORMER, CONVERTER (PIT)
T6005	⚠1-435-445-11	TRANSFORMER, CONVERTER (PIT)
T6100	⚠1-435-444-11	TRANSFORMER, STAND-BY

<THERMISTOR>

TH6100	1-803-586-11	THERMISTOR, NTC

<VARISTOR >

VD6000	1-803-614-11	VARISTOR ENE471D-20A
VD6001	⚠1-803-830-31	VARISTOR (ERZV14D621)
VD6002	⚠1-803-830-31	VARISTOR (ERZV14D621)

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* A-1136-087-A B3 BOARD, COMPLETE
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<CAPACITOR>

C333	1-216-295-91	SHORT	0		
C368	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C369	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C372	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C373	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C374	1-126-603-11	ELECT CHIP	4.7UF	20.00%	35V
C375	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C376	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C377	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C378	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C501	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C502	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C503	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C505	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C507	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C509	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C510	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C511	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C512	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C514	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C515	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C516	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C517	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C518	1-126-204-11	ELECT CHIP	47UF	20.00%	16V
C519	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C520	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C521	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C522	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C523	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C524	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C525	1-126-394-11	ELECT CHIP	10UF	20.00%	16V
C526	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C527	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C528	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C529	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C531	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C533	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C535	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C536	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C537	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C538	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C539	1-126-204-11	ELECT CHIP	47UF	20.00%	16V
C540	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V

B3

REF.NO.	PART NO.	DESCRIPTION	REMARK
C542	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C543	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C545	1-126-396-11	ELECT CHIP 47UF	20.00% 16V
C546	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C548	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C549	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C550	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C551	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C554	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C555	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C556	1-126-392-11	ELECT CHIP 100UF	20.00% 6.3V
C557	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C559	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C560	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C601	1-126-394-11	ELECT CHIP 10UF	20.00% 16V
C602	1-126-394-11	ELECT CHIP 10UF	20.00% 16V
C603	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C604	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C605	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C606	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C607	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C608	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C609	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C610	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C611	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C612	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C613	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C614	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C615	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C616	1-126-396-11	ELECT CHIP 47UF	20.00% 16V
C617	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C618	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C619	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C620	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C621	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C622	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C623	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C624	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C625	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C626	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C627	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C628	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C629	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C630	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C631	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C632	1-126-206-11	ELECT CHIP 100UF	20.00% 6.3V
C633	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C634	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C635	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C636	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C637	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C638	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C639	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C640	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C642	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C643	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C644	1-126-398-11	ELECT CHIP 4.7UF	20.00% 35V
C645	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C801	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C802	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C803	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C804	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C806	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C807	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C808	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C809	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C810	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C811	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C812	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C813	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C814	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C815	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C816	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C817	1-163-229-11	CERAMIC CHIP 12PF	5.00% 50V
C818	1-163-229-11	CERAMIC CHIP 12PF	5.00% 50V
C819	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C820	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C821	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C822	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C823	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C824	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C827	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C829	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C834	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C835	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C839	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C840	1-126-206-11	ELECT CHIP 100UF	20.00% 6.3V
C841	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C842	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C843	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C844	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C848	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C849	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C850	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C851	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C853	1-164-182-11	CERAMIC CHIP 0.0033UF	10.00% 50V
C854	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C901	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C902	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C903	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C904	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C905	1-109-982-11	CERAMIC CHIP 1UF	10.00% 10V
C906	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C907	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C908	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C909	1-126-396-11	ELECT CHIP 47UF	20.00% 16V
C910	1-163-009-91	CERAMIC CHIP 0.001UF	10.00% 50V
C913	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C914	1-126-394-11	ELECT CHIP 10UF	20.00% 16V
C950	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C954	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CN502	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
		<DIODE>	
D501	8-719-083-58	DIODE UDZSTE-173.9B	
D601	8-719-404-50	DIODE MA111-TX	
		<FERRITBEAD>	
FB501	1-414-813-11	FERRITE 0UH	
FB502	1-414-813-11	FERRITE 0UH	
FB503	1-414-813-11	FERRITE 0UH	
FB504	1-414-813-11	FERRITE 0UH	
FB601	1-414-553-11	FERRITE 0UH	
FB801	1-414-553-11	FERRITE 0UH	
FB802	1-414-553-11	FERRITE 0UH	
		<FILTER>	
FL306	1-239-558-11	FILTER, CHIP EMI	
FL501	1-233-877-11	FILTER, LOW PASS	
FL502	1-233-504-21	FILTER, LOW PASS	
FL503	1-233-504-21	FILTER, LOW PASS	
FL504	1-234-177-21	FILTER, CHIP EMI	
FL505	1-234-177-21	FILTER, CHIP EMI	
FL506	1-234-177-21	FILTER, CHIP EMI	
FL508	1-234-177-21	FILTER, CHIP EMI	
FL509	1-234-177-21	FILTER, CHIP EMI	
FL510	1-234-177-21	FILTER, CHIP EMI	
FL511	1-234-177-21	FILTER, CHIP EMI	
FL512	1-234-177-21	FILTER, CHIP EMI	
FL601	1-234-177-21	FILTER, CHIP EMI	
FL602	1-234-177-21	FILTER, CHIP EMI	
FL603	1-234-177-21	FILTER, CHIP EMI	
FL606	1-239-560-11	FILTER, CHIP EMI	
FL801	1-234-177-21	FILTER, CHIP EMI	
FL802	1-234-177-21	FILTER, CHIP EMI	
FL803	1-234-177-21	FILTER, CHIP EMI	
FL804	1-234-177-21	FILTER, CHIP EMI	
FL806	1-234-177-21	FILTER, CHIP EMI	
FL807	1-234-177-21	FILTER, CHIP EMI	
FL808	1-234-177-21	FILTER, CHIP EMI	
FL901	1-233-878-11	FILTER, LOW PASS	
FL902	1-233-876-11	FILTER, LOW PASS	
FL903	1-233-876-11	FILTER, LOW PASS	
FL904	1-234-177-21	FILTER, CHIP EMI	
FL905	1-234-177-21	FILTER, CHIP EMI	
FL906	1-234-177-21	FILTER, CHIP EMI	
FL907	1-234-177-21	FILTER, CHIP EMI	
		<IC>	
IC313	8-759-669-75	IC TLC2932IPWR	
IC314	8-759-525-10	IC TC7SET08F(TE85L)	
IC315	8-759-525-10	IC TC7SET08F(TE85L)	
IC316	8-759-525-10	IC TC7SET08F(TE85L)	
IC501	8-759-447-90	IC TLC5733AIPM	
IC504	8-759-669-78	IC TLC2933IPWR-12	
IC505	8-759-640-16	IC TC7SET04F(TE85R	
IC506	8-759-640-16	IC TC7SET04F(TE85R	
IC601	8-752-398-47	IC CXD2090Q	
IC602	8-759-573-19	IC MSM56V16160D-10	
IC603	8-759-669-75	IC TLC2932IPWR	
IC604	8-752-072-94	IC CXA1875AM-T4	
IC801	8-759-672-57	IC CXD9509AQ	
IC802	8-759-677-37	IC MT48LC2M32B2TG-7	
IC803	8-759-460-29	IC PST9120NL	
IC901	8-752-367-59	IC CXD2309Q	
IC902	8-759-829-33	IC MB94918RPF-G-133-BND	
IC903	6-700-149-01	IC M24C04-MN6T(A)	
IC904	8-759-349-11	IC PST9145NL	
		<COIL>	
L304	1-412-029-11	INDUCTOR 10UH	
L305	1-412-029-11	INDUCTOR 10UH	
L501	1-412-026-11	INDUCTOR 1UH	
L502	1-412-026-11	INDUCTOR 1UH	
L503	1-412-026-11	INDUCTOR 1UH	
L504	1-412-026-11	INDUCTOR 1UH	
L505	1-412-029-11	INDUCTOR 10UH	
L506	1-412-026-11	INDUCTOR 1UH	
L508	1-412-029-11	INDUCTOR 10UH	
L509	1-412-029-11	INDUCTOR 10UH	
L511	1-412-026-11	INDUCTOR 1UH	
L512	1-412-026-11	INDUCTOR 1UH	
L604	1-412-029-11	INDUCTOR 10UH	
L605	1-412-029-11	INDUCTOR 10UH	
		<TRANSISTOR>	
Q304	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q501	8-729-216-22	TRANSISTOR 2SA1162-G	
Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q503	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q510	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q511	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q512	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q513	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q514	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q515	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q516	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q517	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q518	8-729-216-22	TRANSISTOR 2SA1162-G	
Q519	1-801-806-11	TRANSISTOR DTC144EKA	
Q520	1-801-806-11	TRANSISTOR DTC144EKA	
Q521	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q522	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q523	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q524	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q601	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
Q602	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q901	8-729-216-22	TRANSISTOR 2SA1162-G			
Q902	8-729-216-22	TRANSISTOR 2SA1162-G			
Q903	8-729-216-22	TRANSISTOR 2SA1162-G			
Q904	8-729-028-28	TRANSISTOR 2SK2036(TE85L)			
Q905	8-729-028-28	TRANSISTOR 2SK2036(TE85L)			
Q906	1-801-806-11	TRANSISTOR DTC144EKA			
Q907	8-729-216-22	TRANSISTOR 2SA1162-G			
Q908	8-729-216-22	TRANSISTOR 2SA1162-G			
Q909	8-729-216-22	TRANSISTOR 2SA1162-G			
	<RESISTOR>				
R310	1-216-009-91	RES-CHIP	22	5%	1/10W
R334	1-216-295-91	SHORT	0		
R339	1-216-295-91	SHORT	0		
R350	1-216-049-11	RES-CHIP	1K	5%	1/10W
R361	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R362	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R363	1-216-037-00	RES-CHIP	330	5%	1/10W
R364	1-216-295-91	SHORT	0		
R365	1-216-047-91	RES-CHIP	820	5%	1/10W
R366	1-216-049-11	RES-CHIP	1K	5%	1/10W
R367	1-216-117-00	RES-CHIP	680K	5%	1/10W
R368	1-216-117-00	RES-CHIP	680K	5%	1/10W
R369	1-216-295-91	SHORT	0		
R371	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R372	1-216-009-91	RES-CHIP	22	5%	1/10W
R373	1-216-066-00	RES-CHIP	5.1K	5%	1/10W
R501	1-216-025-11	RES-CHIP	100	5%	1/10W
R502	1-216-025-11	RES-CHIP	100	5%	1/10W
R503	1-216-295-91	SHORT	0		
R504	1-216-295-91	SHORT	0		
R505	1-216-295-91	SHORT	0		
R506	1-216-009-91	RES-CHIP	22	5%	1/10W
R507	1-216-009-91	RES-CHIP	22	5%	1/10W
R508	1-216-025-11	RES-CHIP	100	5%	1/10W
R509	1-216-025-11	RES-CHIP	100	5%	1/10W
R510	1-216-043-91	RES-CHIP	560	5%	1/10W
R511	1-216-043-91	RES-CHIP	560	5%	1/10W
R512	1-216-043-91	RES-CHIP	560	5%	1/10W
R513	1-216-043-91	RES-CHIP	560	5%	1/10W
R514	1-216-043-91	RES-CHIP	560	5%	1/10W
R515	1-216-043-91	RES-CHIP	560	5%	1/10W
R516	1-216-049-11	RES-CHIP	1K	5%	1/10W
R517	1-216-049-11	RES-CHIP	1K	5%	1/10W
R518	1-216-295-91	SHORT	0		
R520	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R521	1-216-295-91	SHORT	0		
R523	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R524	1-216-295-91	SHORT	0		
R526	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R528	1-216-037-00	RES-CHIP	330	5%	1/10W
R529	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R530	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R531	1-216-031-00	RES-CHIP	180	5%	1/10W
R532	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R533	1-216-031-00	RES-CHIP	180	5%	1/10W
R534	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R535	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R536	1-216-049-11	RES-CHIP	1K	5%	1/10W
R537	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R540	1-216-049-11	RES-CHIP	1K	5%	1/10W
R548	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R549	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R550	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R551	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R552	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R553	1-216-295-91	SHORT	0		
R554	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R555	1-216-077-91	RES-CHIP	15K	5%	1/10W
R557	1-216-049-11	RES-CHIP	1K	5%	1/10W
R558	1-216-025-11	RES-CHIP	100	5%	1/10W
R559	1-216-077-91	RES-CHIP	15K	5%	1/10W
R560	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R561	1-216-043-91	RES-CHIP	560	5%	1/10W
R562	1-216-043-91	RES-CHIP	560	5%	1/10W
R563	1-216-043-91	RES-CHIP	560	5%	1/10W
R564	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R565	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R566	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R571	1-216-295-91	SHORT	0		
R572	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R575	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R576	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R577	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R578	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R579	1-216-077-91	RES-CHIP	15K	5%	1/10W
R580	1-216-295-91	SHORT	0		
R582	1-216-041-00	RES-CHIP	470	5%	1/10W
R584	1-216-041-00	RES-CHIP	470	5%	1/10W
R586	1-216-049-11	RES-CHIP	1K	5%	1/10W
R587	1-216-049-11	RES-CHIP	1K	5%	1/10W
R589	1-216-049-11	RES-CHIP	1K	5%	1/10W
R590	1-216-049-11	RES-CHIP	1K	5%	1/10W
R591	1-216-049-11	RES-CHIP	1K	5%	1/10W
R592	1-216-049-11	RES-CHIP	1K	5%	1/10W
R594	1-216-041-00	RES-CHIP	470	5%	1/10W
R596	1-216-049-11	RES-CHIP	1K	5%	1/10W
R597	1-216-073-91	RES-CHIP	10K	5%	1/10W
R598	1-216-025-11	RES-CHIP	100	5%	1/10W
R600	1-216-066-00	RES-CHIP	5.1K	5%	1/10W
R601	1-216-073-91	RES-CHIP	10K	5%	1/10W
R602	1-216-073-91	RES-CHIP	10K	5%	1/10W
R603	1-216-073-91	RES-CHIP	10K	5%	1/10W
R604	1-216-033-00	RES-CHIP	220	5%	1/10W
R605	1-216-295-91	SHORT	0		
R608	1-216-295-91	SHORT	0		
R609	1-216-073-91	RES-CHIP	10K	5%	1/10W
R610	1-216-033-00	RES-CHIP	220	5%	1/10W
R611	1-216-073-91	RES-CHIP	10K	5%	1/10W
R613	1-216-065-91	RES-CHIP	4.7K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R615	1-216-089-91	RES-CHIP	47K	5%	1/10W
R616	1-216-073-91	RES-CHIP	10K	5%	1/10W
R617	1-216-295-91	SHORT	0		
R619	1-216-073-91	RES-CHIP	10K	5%	1/10W
R621	1-216-295-91	SHORT	0		
R622	1-216-295-91	SHORT	0		
R623	1-216-295-91	SHORT	0		
R624	1-216-295-91	SHORT	0		
R625	1-216-295-91	SHORT	0		
R626	1-216-073-91	RES-CHIP	10K	5%	1/10W
R628	1-216-295-91	SHORT	0		
R629	1-216-073-91	RES-CHIP	10K	5%	1/10W
R631	1-216-295-91	SHORT	0		
R634	1-216-295-91	SHORT	0		
R635	1-216-295-91	SHORT	0		
R638	1-216-295-91	SHORT	0		
R639	1-216-019-00	RES-CHIP	56	5%	1/10W
R640	1-216-009-91	RES-CHIP	22	5%	1/10W
R642	1-216-295-91	SHORT	0		
R643	1-216-295-91	SHORT	0		
R645	1-216-295-91	SHORT	0		
R651	1-216-295-91	SHORT	0		
R653	1-216-025-11	RES-CHIP	100	5%	1/10W
R654	1-216-033-00	RES-CHIP	220	5%	1/10W
R655	1-216-295-91	SHORT	0		
R657	1-216-009-91	RES-CHIP	22	5%	1/10W
R658	1-216-049-11	RES-CHIP	1K	5%	1/10W
R659	1-216-025-11	RES-CHIP	100	5%	1/10W
R660	1-216-025-11	RES-CHIP	100	5%	1/10W
R661	1-216-025-11	RES-CHIP	100	5%	1/10W
R664	1-216-009-91	RES-CHIP	22	5%	1/10W
R665	1-216-035-00	RES-CHIP	270	5%	1/10W
R666	1-216-646-11	METAL CHIP	620	0.5%	1/10W
R667	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R668	1-216-009-91	RES-CHIP	22	5%	1/10W
R670	1-216-295-91	SHORT	0		
R671	1-216-073-91	RES-CHIP	10K	5%	1/10W
R672	1-216-073-91	RES-CHIP	10K	5%	1/10W
R673	1-216-073-91	RES-CHIP	10K	5%	1/10W
R674	1-216-073-91	RES-CHIP	10K	5%	1/10W
R675	1-216-073-91	RES-CHIP	10K	5%	1/10W
R676	1-216-073-91	RES-CHIP	10K	5%	1/10W
R677	1-216-073-91	RES-CHIP	10K	5%	1/10W
R678	1-216-073-91	RES-CHIP	10K	5%	1/10W
R679	1-216-073-91	RES-CHIP	10K	5%	1/10W
R680	1-216-073-91	RES-CHIP	10K	5%	1/10W
R681	1-216-073-91	RES-CHIP	10K	5%	1/10W
R682	1-216-073-91	RES-CHIP	10K	5%	1/10W
R683	1-216-073-91	RES-CHIP	10K	5%	1/10W
R684	1-216-073-91	RES-CHIP	10K	5%	1/10W
R685	1-216-073-91	RES-CHIP	10K	5%	1/10W
R686	1-216-073-91	RES-CHIP	10K	5%	1/10W
R687	1-216-295-91	SHORT	0		
R688	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R689	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R690	1-216-295-91	SHORT	0		
R691	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R692	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R693	1-216-009-91	RES-CHIP	22	5%	1/10W
R694	1-216-295-91	SHORT	0		
R695	1-216-047-91	RES-CHIP	820	5%	1/10W
R696	1-216-049-11	RES-CHIP	1K	5%	1/10W
R697	1-216-117-00	RES-CHIP	680K	5%	1/10W
R698	1-216-117-00	RES-CHIP	680K	5%	1/10W
R699	1-216-295-91	SHORT	0		
R801	1-216-009-91	RES-CHIP	22	5%	1/10W
R802	1-216-009-91	RES-CHIP	22	5%	1/10W
R804	1-216-073-91	RES-CHIP	10K	5%	1/10W
R806	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R807	1-208-778-11	METAL CHIP	680	0.5%	1/10W
R813	1-216-295-91	SHORT	0		
R814	1-216-073-91	RES-CHIP	10K	5%	1/10W
R815	1-216-073-91	RES-CHIP	10K	5%	1/10W
R816	1-216-073-91	RES-CHIP	10K	5%	1/10W
R817	1-216-017-91	RES-CHIP	47	5%	1/10W
R823	1-216-073-91	RES-CHIP	10K	5%	1/10W
R824	1-216-073-91	RES-CHIP	10K	5%	1/10W
R825	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R826	1-208-758-11	METAL CHIP	100	0.5%	1/10W
R827	1-216-607-11	METAL CHIP	15	0.5%	1/10W
R831	1-216-295-91	SHORT	0		
R832	1-216-295-91	SHORT	0		
R833	1-216-295-91	SHORT	0		
R834	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R835	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R836	1-211-960-11	METAL CHIP	22	0.5%	1/10W
R844	1-216-017-91	RES-CHIP	47	5%	1/10W
R845	1-216-017-91	RES-CHIP	47	5%	1/10W
R846	1-216-017-91	RES-CHIP	47	5%	1/10W
R847	1-216-017-91	RES-CHIP	47	5%	1/10W
R848	1-216-017-91	RES-CHIP	47	5%	1/10W
R849	1-216-017-91	RES-CHIP	47	5%	1/10W
R850	1-216-017-91	RES-CHIP	47	5%	1/10W
R851	1-216-017-91	RES-CHIP	47	5%	1/10W
R852	1-216-009-91	RES-CHIP	22	5%	1/10W
R853	1-216-009-91	RES-CHIP	22	5%	1/10W
R854	1-216-009-91	RES-CHIP	22	5%	1/10W
R855	1-216-009-91	RES-CHIP	22	5%	1/10W
R856	1-216-009-91	RES-CHIP	22	5%	1/10W
R857	1-216-009-91	RES-CHIP	22	5%	1/10W
R858	1-216-009-91	RES-CHIP	22	5%	1/10W
R859	1-216-009-91	RES-CHIP	22	5%	1/10W
R860	1-216-009-91	RES-CHIP	22	5%	1/10W
R861	1-216-009-91	RES-CHIP	22	5%	1/10W
R862	1-216-009-91	RES-CHIP	22	5%	1/10W
R863	1-216-009-91	RES-CHIP	22	5%	1/10W
R864	1-216-017-91	RES-CHIP	47	5%	1/10W
R865	1-216-017-91	RES-CHIP	47	5%	1/10W
R866	1-216-017-91	RES-CHIP	47	5%	1/10W
R867	1-216-017-91	RES-CHIP	47	5%	1/10W
R868	1-216-017-91	RES-CHIP	47	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R869	1-216-017-91	RES-CHIP	47	5%	1/10W
R870	1-216-017-91	RES-CHIP	47	5%	1/10W
R871	1-216-017-91	RES-CHIP	47	5%	1/10W
R872	1-216-017-91	RES-CHIP	47	5%	1/10W
R873	1-216-017-91	RES-CHIP	47	5%	1/10W
R874	1-216-017-91	RES-CHIP	47	5%	1/10W
R875	1-216-017-91	RES-CHIP	47	5%	1/10W
R876	1-216-017-91	RES-CHIP	47	5%	1/10W
R877	1-216-017-91	RES-CHIP	47	5%	1/10W
R878	1-216-017-91	RES-CHIP	47	5%	1/10W
R879	1-216-017-91	RES-CHIP	47	5%	1/10W
R880	1-216-009-91	RES-CHIP	22	5%	1/10W
R881	1-216-009-91	RES-CHIP	22	5%	1/10W
R882	1-216-009-91	RES-CHIP	22	5%	1/10W
R883	1-216-009-91	RES-CHIP	22	5%	1/10W
R884	1-216-009-91	RES-CHIP	22	5%	1/10W
R885	1-216-009-91	RES-CHIP	22	5%	1/10W
R886	1-216-009-91	RES-CHIP	22	5%	1/10W
R887	1-216-009-91	RES-CHIP	22	5%	1/10W
R888	1-216-009-91	RES-CHIP	22	5%	1/10W
R889	1-216-295-91	SHORT	0		
R890	1-216-009-91	RES-CHIP	22	5%	1/10W
R891	1-216-017-91	RES-CHIP	47	5%	1/10W
R892	1-216-017-91	RES-CHIP	47	5%	1/10W
R893	1-216-017-91	RES-CHIP	47	5%	1/10W
R894	1-216-017-91	RES-CHIP	47	5%	1/10W
R895	1-216-017-91	RES-CHIP	47	5%	1/10W
R896	1-216-017-91	RES-CHIP	47	5%	1/10W
R897	1-216-017-91	RES-CHIP	47	5%	1/10W
R898	1-216-017-91	RES-CHIP	47	5%	1/10W
R899	1-216-073-91	RES-CHIP	10K	5%	1/10W
R901	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R902	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R903	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R904	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R905	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R906	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R907	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R908	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R909	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R910	1-216-049-11	RES-CHIP	1K	5%	1/10W
R911	1-216-049-11	RES-CHIP	1K	5%	1/10W
R912	1-216-049-11	RES-CHIP	1K	5%	1/10W
R914	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R916	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R923	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R924	1-216-073-91	RES-CHIP	10K	5%	1/10W
R926	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R929	1-216-025-11	RES-CHIP	100	5%	1/10W
R930	1-216-025-11	RES-CHIP	100	5%	1/10W
R931	1-216-041-00	RES-CHIP	470	5%	1/10W
R933	1-216-025-11	RES-CHIP	100	5%	1/10W
R934	1-216-025-11	RES-CHIP	100	5%	1/10W
R935	1-216-073-91	RES-CHIP	10K	5%	1/10W
R936	1-216-041-00	RES-CHIP	470	5%	1/10W
R937	1-216-025-11	RES-CHIP	100	5%	1/10W
R938	1-216-025-11	RES-CHIP	100	5%	1/10W
R940	1-216-295-91	SHORT	0		
R941	1-216-295-91	SHORT	0		
R942	1-216-037-00	RES-CHIP	330	5%	1/10W
R943	1-216-033-00	RES-CHIP	220	5%	1/10W
R944	1-216-295-91	SHORT	0		
R945	1-216-295-91	SHORT	0		
R951	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R952	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R956	1-216-089-91	RES-CHIP	47K	5%	1/10W
R957	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R958	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R959	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R960	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R961	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R962	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R979	1-216-295-91	SHORT	0		
R981	1-216-037-00	RES-CHIP	330	5%	1/10W
R982	1-216-037-00	RES-CHIP	330	5%	1/10W
R983	1-216-089-91	RES-CHIP	47K	5%	1/10W
R984	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R985	1-216-113-00	RES-CHIP	470K	5%	1/10W
R986	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R987	1-216-049-11	RES-CHIP	1K	5%	1/10W
R988	1-216-033-00	RES-CHIP	220	5%	1/10W
R989	1-216-081-00	RES-CHIP	22K	5%	1/10W
R990	1-216-113-00	RES-CHIP	470K	5%	1/10W
R991	1-216-295-91	SHORT	0		
R993	1-216-089-91	RES-CHIP	47K	5%	1/10W
R994	1-216-033-00	RES-CHIP	220	5%	1/10W
R995	1-216-033-00	RES-CHIP	220	5%	1/10W
R996	1-216-037-00	RES-CHIP	330	5%	1/10W
R998	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2801	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R2802	1-208-754-11	METAL CHIP	68	0.5%	1/10W
R2803	1-216-603-11	METAL CHIP	10	0.5%	1/10W
R2804	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R2805	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R2806	1-211-960-11	METAL CHIP	22	0.5%	1/10W
R2807	1-216-295-91	SHORT	0		
R2808	1-216-295-91	SHORT	0		
R2813	1-216-295-91	SHORT	0		
R2815	1-216-295-91	SHORT	0		
R2817	1-216-295-91	SHORT	0		
R2818	1-216-295-91	SHORT	0		
R2820	1-216-295-91	SHORT	0		
R2822	1-216-295-91	SHORT	0		

<NETWORK RESISTOR>

RB001	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB002	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB003	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB004	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB005	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB006	1-239-409-11	NETWORK RESISTOR (CHIP) 47

REF.NO.	PART NO.	DESCRIPTION	REMARK
RB007	1-239-414-11	NETWORK RESISTOR (CHIP) 150	
RB008	1-239-414-11	NETWORK RESISTOR (CHIP) 150	
RB009	1-239-414-11	NETWORK RESISTOR (CHIP) 150	
RB010	1-239-414-11	NETWORK RESISTOR (CHIP) 150	
RB011	1-239-414-11	NETWORK RESISTOR (CHIP) 150	
RB012	1-239-414-11	NETWORK RESISTOR (CHIP) 150	
RB013	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB014	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB015	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB016	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB017	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB018	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB019	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB020	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB021	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB022	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB023	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB024	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB025	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB026	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB027	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB701	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB702	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB703	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB704	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB705	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB706	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
		<CRYSTAL>	
X802	1-795-112-21	VIBRATOR, CRYSTAL (17.28MHz)	
X901	1-760-014-11	VIBRATOR, CERAMIC (20MHz)	
**********			
		* A-1300-347-A M1 BOARD, COMPLETE (ER43M61/M90/M91, ER53M61/M90/M91) **********	
		* A-1300-348-A M1 BOARD, COMPLETE (ER43M31) **********	
		* A-1300-3351-A M1 BOARD, COMPLETE (ER53M61/M90/M91, ER53M61/M90/M91) **********	
		* A-1300-3352-A M1 BOARD, COMPLETE (ER53M31) **********	
		<CAPACITOR>	
C001	1-126-960-11	ELECT 1UF 20.00% 50V	
C002	1-163-038-91	CERAMIC CHIP 0.1UF 25V	
C003	1-163-037-11	CERAMIC CHIP 0.022UF 10.00% 50V	
C004	1-163-038-91	CERAMIC CHIP 0.1UF 25V	
C007	1-163-038-91	CERAMIC CHIP 0.1UF 25V	
C010	1-126-933-11	ELECT 100UF 20.00% 16V	
C013	1-163-989-11	CERAMIC CHIP 0.033UF 10.00% 25V	
C014	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V	
C015	1-163-239-11	CERAMIC CHIP 33PF 5.00% 50V	
C016	1-163-239-11	CERAMIC CHIP 33PF 5.00% 50V	
C017	1-163-227-11	CERAMIC CHIP 10PF 0.50PF 50V	
C018	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V	
C019	1-163-243-11	CERAMIC CHIP 47PF 5.00% 50V	
C020	1-163-245-11	CERAMIC CHIP 56PF 5.00% 50V	
C021	1-163-227-11	CERAMIC CHIP 10PF 0.50PF 50V	
C022	1-163-227-11	CERAMIC CHIP 10PF 0.50PF 50V	
C023	1-126-967-11	ELECT 47UF 20.00% 50V	
C024	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V	
C025	1-126-933-11	ELECT 100UF 20.00% 16V	
C026	1-163-009-91	CERAMIC CHIP 0.001UF 10.00% 50V	
C027	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V	
C028	1-126-933-11	ELECT 100UF 20.00% 16V	
C030	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V	
C032	1-126-933-11	ELECT 100UF 20.00% 16V	
C033	1-163-038-91	CERAMIC CHIP 0.1UF 25V	
C034	1-163-243-11	CERAMIC CHIP 47PF 5.00% 50V	
C035	1-163-001-11	CERAMIC CHIP 220PF 10.00% 50V	
C036	1-163-251-11	CERAMIC CHIP 100PF 5.00% 50V	
C037	1-163-251-11	CERAMIC CHIP 100PF 5.00% 50V	
C038	1-163-251-11	CERAMIC CHIP 100PF 5.00% 50V	
C039	1-163-251-11	CERAMIC CHIP 100PF 5.00% 50V	
C040	1-164-005-11	CERAMIC CHIP 0.47UF 25V	
C041	1-163-001-11	CERAMIC CHIP 220PF 10.00% 50V	
C042	1-163-001-11	CERAMIC CHIP 220PF 10.00% 50V	
C043	1-126-933-11	ELECT 100UF 20.00% 16V	
C045	1-104-665-11	ELECT 100UF 20.00% 25V	
C046	1-163-038-91	CERAMIC CHIP 0.1UF 25V	
C048	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V	
C049	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V	
C050	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V	
C051	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V	
C052	1-163-038-91	CERAMIC CHIP 0.1UF 25V	
C054	1-126-933-11	ELECT 100UF 20.00% 16V	
C055	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V	
C056	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V	
C059	1-163-038-91	CERAMIC CHIP 0.1UF 25V	
C060	1-163-038-91	CERAMIC CHIP 0.1UF 25V	
C061	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V	
C062	1-163-259-91	CERAMIC CHIP 220PF 5.00% 50V	
		<CONNECTOR>	
CN001	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
		<DIODE>	
D003	8-719-988-61	DIODE 1SS355TE-17	
D004	8-719-988-61	DIODE 1SS355TE-17	
D007	8-719-988-61	DIODE 1SS355TE-17	
D008	8-719-988-61	DIODE 1SS355TE-17	
D009	8-719-988-61	DIODE 1SS355TE-17	
D015	8-719-988-61	DIODE 1SS355TE-17	
D017	8-719-988-61	DIODE 1SS355TE-17	

REF.NO.	PART NO.	DESCRIPTION		REMARK
	<FERRITBEAD>			
FB001	1-414-233-22	FERRITE	0UH	
FB002	1-414-233-22	FERRITE	0UH	
FB003	1-414-233-22	FERRITE	0UH	
FB004	1-414-233-22	FERRITE	0UH	
FB005	1-414-233-22	FERRITE	0UH	
FB006	1-414-233-22	FERRITE	0UH	
FB007	1-414-233-22	FERRITE	0UH	
FB008	1-414-233-22	FERRITE	0UH	
FB009	1-414-233-22	FERRITE	0UH	
FB010	1-414-233-22	FERRITE	0UH	
FB011	1-414-233-22	FERRITE	0UH	
FB012	1-414-233-22	FERRITE	0UH	
	<FILTER>			
FL001	1-236-071-11	ENCAPSULATED COMPONENT		
	<IC>			
IC001	8-759-042-02	IC S-80743AL-A7-S		
IC002	8-752-922-07	IC CXP750096-040Q-TL		
IC003	8-759-652-13	IC SDA5254-2B006		
IC004	8-759-675-64	IC M24C08-MN6T(A)		
IC005	8-759-671-94	IC MC74HC4053AFEL		
IC006	8-759-575-71	IC M24C04-WMN6T		
IC007	8-759-042-02	IC S-80743AL-A7-S		
IC008	8-759-242-68	IC TC7W32F		
IC009	8-759-242-78	IC TC7W02F		
IC010	8-759-242-74	IC TC7W04F		
	<CHIP CONDUCTOR>			
JR001	1-216-295-91	SHORT	0	
JR002	1-216-295-91	SHORT	0	
	<COIL>			
L002	1-408-591-11	INDUCTOR	1UH	
L003	1-408-603-31	INDUCTOR	10UH	
L004	1-408-603-31	INDUCTOR	10UH	
L005	1-408-602-31	INDUCTOR	8.2UH	
L006	1-408-603-31	INDUCTOR	10UH	
	<TRANSISTOR>			
Q004	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R	
Q005	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q006	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q008	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R	
Q009	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R	
Q010	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R	
Q014	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q015	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q016	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R	
Q017	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R	
Q018	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R	
Q019	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R	
Q020	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R	
Q021	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R	
Q022	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q023	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
	<RESISTOR>			
R001	1-216-073-91	RES-CHIP	10K	5% 1/10W
R002	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R003	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R004	1-216-025-11	RES-CHIP	100	5% 1/10W
R005	1-216-025-11	RES-CHIP	100	5% 1/10W
R006	1-216-025-11	RES-CHIP	100	5% 1/10W
R007	1-216-025-11	RES-CHIP	100	5% 1/10W
R008	1-216-025-11	RES-CHIP	100	5% 1/10W
R009	1-216-025-11	RES-CHIP	100	5% 1/10W
R011	1-216-025-11	RES-CHIP	100	5% 1/10W
R012	1-216-025-11	RES-CHIP	100	5% 1/10W
R013	1-216-025-11	RES-CHIP	100	5% 1/10W
R015	1-216-295-91	SHORT	0	
R021	1-216-025-11	RES-CHIP	100	5% 1/10W
R022	1-216-025-11	RES-CHIP	100	5% 1/10W
R023	1-216-025-11	RES-CHIP	100	5% 1/10W
R024	1-216-049-11	RES-CHIP	1K	5% 1/10W
R026	1-216-025-11	RES-CHIP	100	5% 1/10W
R027	1-216-033-00	RES-CHIP	220	5% 1/10W
R030	1-216-025-11	RES-CHIP	100	5% 1/10W
R031	1-216-049-11	RES-CHIP	1K	5% 1/10W
R032	1-216-049-11	RES-CHIP	1K	5% 1/10W
R033	1-216-049-11	RES-CHIP	1K	5% 1/10W
R034	1-216-049-11	RES-CHIP	1K	5% 1/10W
R035	1-208-792-11	METAL CHIP	2.7K	0.5% 1/10W
R036	1-216-025-11	RES-CHIP	100	5% 1/10W
R037	1-216-049-11	RES-CHIP	1K	5% 1/10W
R038	1-216-025-11	RES-CHIP	100	5% 1/10W
R039	1-216-049-11	RES-CHIP	1K	5% 1/10W
R040	1-216-025-11	RES-CHIP	100	5% 1/10W
R042	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R043	1-216-033-00	RES-CHIP	220	5% 1/10W
R044	1-216-045-00	RES-CHIP	680	5% 1/10W
R047	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R048	1-216-049-11	RES-CHIP	1K	5% 1/10W
R049	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R050	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R051	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R052	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R053	1-216-045-00	RES-CHIP	680	5% 1/10W
R054	1-216-025-11	RES-CHIP	100	5% 1/10W
R055	1-216-025-11	RES-CHIP	100	5% 1/10W
R058	1-216-685-11	METAL CHIP	27K	0.5% 1/10W
R059	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R060	1-216-045-00	RES-CHIP	680	5% 1/10W
R061	1-216-025-11	RES-CHIP	100	5% 1/10W
R063	1-216-025-11	RES-CHIP	100	5% 1/10W
R064	1-216-025-11	RES-CHIP	100	5% 1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R065	1-208-758-11	METAL CHIP	100	0.5%	1/10W
R067	1-208-758-11	METAL CHIP	100	0.5%	1/10W
R068	1-216-295-91	SHORT	0		
R069	1-208-758-11	METAL CHIP	100	0.5%	1/10W
R070	1-216-295-91	SHORT	0		
R071	1-216-295-91	SHORT	0		
R072	1-216-295-91	SHORT	0		
R073	1-216-025-11	RES-CHIP	100	5%	1/10W
R078	1-216-025-11	RES-CHIP	100	5%	1/10W
R079	1-216-025-11	RES-CHIP	100	5%	1/10W
R080	1-216-121-11	RES-CHIP	1M	5%	1/10W
R081	1-216-041-00	RES-CHIP	470	5%	1/10W
R082	1-216-089-91	RES-CHIP	47K	5%	1/10W
R083	1-216-049-11	RES-CHIP	1K	5%	1/10W
R085	1-216-037-00	RES-CHIP	330	5%	1/10W
R086	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R088	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R089	1-216-073-91	RES-CHIP	10K	5%	1/10W
R090	1-216-033-00	RES-CHIP	220	5%	1/10W
R091	1-216-033-00	RES-CHIP	220	5%	1/10W
R092	1-216-073-91	RES-CHIP	10K	5%	1/10W
R093	1-216-025-11	RES-CHIP	100	5%	1/10W
R094	1-216-025-11	RES-CHIP	100	5%	1/10W
R095	1-216-033-00	RES-CHIP	220	5%	1/10W
R099	1-216-295-91	SHORT	0		
R100	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R101	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R102	1-216-295-91	SHORT	0		
R103	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R104	1-216-295-91	SHORT	0		
R105	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R106	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R107	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R108	1-216-049-11	RES-CHIP	1K	5%	1/10W
R109	1-216-025-11	RES-CHIP	100	5%	1/10W
R110	1-216-049-11	RES-CHIP	1K	5%	1/10W
R111	1-216-025-11	RES-CHIP	100	5%	1/10W
R112	1-216-049-11	RES-CHIP	1K	5%	1/10W
R113	1-216-025-11	RES-CHIP	100	5%	1/10W
R114	1-216-049-11	RES-CHIP	1K	5%	1/10W
R119	1-216-295-91	SHORT	0		
R120	1-216-073-91	RES-CHIP	10K	5%	1/10W
R121	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R123	1-216-017-91	RES-CHIP	47	5%	1/10W
R124	1-216-025-11	RES-CHIP	100	5%	1/10W
R125	1-216-025-11	RES-CHIP	100	5%	1/10W
R126	1-216-049-11	RES-CHIP	1K	5%	1/10W
R127	1-216-049-11	RES-CHIP	1K	5%	1/10W
R128	1-216-049-11	RES-CHIP	1K	5%	1/10W
R129	1-216-049-11	RES-CHIP	1K	5%	1/10W
R131	1-216-073-91	RES-CHIP	10K	5%	1/10W
R132	1-216-049-11	RES-CHIP	1K	5%	1/10W
R133	1-216-025-11	RES-CHIP	100	5%	1/10W
R134	1-216-041-00	RES-CHIP	470	5%	1/10W
R135	1-216-025-11	RES-CHIP	100	5%	1/10W
R137	1-216-295-91	SHORT	0		
R138	1-216-041-00	RES-CHIP	470	5%	1/10W
R139	1-216-049-11	RES-CHIP	1K	5%	1/10W
R140	1-216-073-91	RES-CHIP	10K	5%	1/10W
R141	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R142	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R143	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R144	1-216-033-00	RES-CHIP	220	5%	1/10W

<CRYSTAL>

X001	1-567-928-11	VIBLATOR, CERAMIC (20MHz)			
X002	1-781-685-21	VIBRATOR, CRYSTAL (6MHz)			

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* A-1300-349-A A1 BOARD, COMPLETE (ER43M90, ER53M90)
****
* A-1300-350-A A1 BOARD, COMPLETE (ER43M31/M61/M91, ER53M31/M61/M91)
****

*	1-555-110-00	CABLE, PIN			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	4-389-026-51	SHEET, BN			

<CAPACITOR>

C1101	1-126-935-11	ELECT	470UF	20.00%	16V
C1102	1-126-964-11	ELECT	10UF	20.00%	50V
C1103	1-126-960-11	ELECT	1UF	20.00%	50V
C1104	1-126-960-11	ELECT	1UF	20.00%	50V
C1105	1-126-041-11	ELECT	2200UF	20.00%	35V
C1106	1-130-495-00	MYLAR	0.1UF	5.00%	50V
C1107	1-130-495-00	MYLAR	0.1UF	5.00%	50V
C1108	1-126-947-11	ELECT	47UF	20.00%	16V
C1109	1-126-947-11	ELECT	47UF	20.00%	16V
C1110	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C1111	1-126-041-11	ELECT	2200UF	20.00%	35V
C1114	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C1117	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C1201	1-107-725-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1202	1-126-934-11	ELECT	220UF	20.00%	16V
C1203	1-126-965-91	ELECT	22UF	20.00%	50V
C1204	1-115-419-11	CERAMIC CHIP	3300PF	5.00%	25V
C1205	1-115-419-11	CERAMIC CHIP	3300PF	5.00%	25V
C1206	1-164-492-11	CERAMIC CHIP	0.15UF	10.00%	16V
C1208	1-164-489-11	CERAMIC CHIP	0.22UF	10.00%	16V
C1209	1-164-489-11	CERAMIC CHIP	0.22UF	10.00%	16V
C1210	1-164-492-11	CERAMIC CHIP	0.15UF	10.00%	16V
C1211	1-164-489-11	CERAMIC CHIP	0.22UF	10.00%	16V
C1213	1-164-489-11	CERAMIC CHIP	0.22UF	10.00%	16V
C1215	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C1217	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C1219	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C1220	1-107-715-11	ELECT	22UF	20.00%	16V
C1221	1-137-150-11	MYLAR	0.01UF	5.00%	50V

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C1222	1-126-962-11	ELECT 3.3UF 20.00% 50V	
C1223	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1224	1-126-933-11	ELECT 100UF 20.00% 16V	
C1225	1-126-933-11	ELECT 100UF 20.00% 16V	
C1226	1-126-933-11	ELECT 100UF 20.00% 16V	
C1227	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1228	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1229	1-126-767-11	ELECT 1000UF 20.00% 16V	
C1230	1-126-933-11	ELECT 100UF 20.00% 16V	
C1231	1-107-725-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C1310	1-115-339-11	CERAMIC CHIP 0.1UF 10.00% 50V	
C1311	1-163-251-11	CERAMIC CHIP 100PF 5.00% 50V	
C1312	1-126-947-11	ELECT 47UF 20.00% 16V	
C1314	1-126-933-11	ELECT 100UF 20.00% 16V	
C1315	1-107-725-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C1316	1-126-933-11	ELECT 100UF 20.00% 16V	
C1317	1-163-005-91	CERAMIC CHIP 470PF 10.00% 50V	
C1321	1-126-933-11	ELECT 100UF 20.00% 16V	
C1323	1-107-725-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C1324	1-163-005-91	CERAMIC CHIP 470PF 10.00% 50V	
C1325	1-126-933-11	ELECT 100UF 20.00% 16V	
C1326	1-126-933-11	ELECT 100UF 20.00% 16V	
C1327	1-104-665-11	ELECT 100UF 20.00% 25V	
C1328	1-126-967-11	ELECT 47UF 20.00% 50V	
C1329	1-163-005-91	CERAMIC CHIP 470PF 10.00% 50V	
C1330	1-163-005-91	CERAMIC CHIP 470PF 10.00% 50V	
C1331	1-163-005-91	CERAMIC CHIP 470PF 10.00% 50V	
C1332	1-126-967-11	ELECT 47UF 20.00% 50V	
C1333	1-104-665-11	ELECT 100UF 20.00% 25V	
C1334	1-126-933-11	ELECT 100UF 20.00% 16V	
C1335	1-163-005-91	CERAMIC CHIP 470PF 10.00% 50V	
C1336	1-163-005-91	CERAMIC CHIP 470PF 10.00% 50V	
C1337	1-163-005-91	CERAMIC CHIP 470PF 10.00% 50V	
C1401	1-164-346-11	CERAMIC CHIP 1UF 16V	
C1601	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1602	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1603	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1604	1-126-933-11	ELECT 100UF 20.00% 16V	
C1605	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1606	1-126-933-11	ELECT 100UF 20.00% 16V	
C1607	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1608	1-126-933-11	ELECT 100UF 20.00% 16V	
C1610	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1611	1-126-916-11	ELECT 1000UF 20.00% 6.3V	
C1612	1-126-935-11	ELECT 470UF 20.00% 10V	
C1615	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1616	1-126-916-11	ELECT 1000UF 20.00% 6.3V	
C1617	1-126-935-11	ELECT 470UF 20.00% 10V	
C1619	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
		<CONNECTOR>	
CN1001	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
CN1102 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN1201	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
CN1301 *	1-564-508-11	PLUG, CONNECTOR 5P	
CN1302 *	1-764-333-11	PLUG, CONNECTOR 10P	
CN1404	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
CN1501	1-785-802-11	PIN, CONNECTOR (WITH PWB) 20P	
CN1502	1-785-802-11	PIN, CONNECTOR (WITH PWB) 20P	
CN1503 *	1-564-511-11	PLUG, CONNECTOR 8P	
CN1504 *	1-564-508-11	PLUG, CONNECTOR 5P	
CN1603 *	1-764-333-11	PLUG, CONNECTOR 10P	
CN1605 *	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CN1606 *	1-564-508-11	PLUG, CONNECTOR 5P	
CN1661	1-695-915-11	TAB (CONTACT)	
CN1665	1-695-915-11	TAB (CONTACT)	
CN1666	1-695-915-11	TAB (CONTACT)	
CN1801	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
		<SPLITTER >	
CP1302	1-251-658-31	SPLITTER RF	
		<DIODE>	
D1101	8-719-988-61	DIODE 1SS355TE-17	
D1102	8-719-988-61	DIODE 1SS355TE-17	
D1103	8-719-988-61	DIODE 1SS355TE-17	
D1104	8-719-988-61	DIODE 1SS355TE-17	
D1105	8-719-914-43	DIODE DAN202K	
D1106	8-719-914-43	DIODE DAN202K	
D1107	8-719-402-92	DIODE MA3220M-TX	
D1108	8-719-988-61	DIODE 1SS355TE-17	
D1109	8-719-988-61	DIODE 1SS355TE-17	
D1110	8-719-402-92	DIODE MA3220M-TX	
D1111	8-719-402-92	DIODE MA3220M-TX	
D1112	8-719-402-92	DIODE MA3220M-TX	
D1201	8-719-988-61	DIODE 1SS355TE-17	
D1202	8-719-914-43	DIODE DAN202K	
D1204	8-719-914-43	DIODE DAN202K	
D1205	8-719-988-61	DIODE 1SS355TE-17	
D1206	8-719-977-95	DIODE DTZ-TT11-2.4B	
D1301	8-719-404-50	DIODE MA111-TX	
D1401	6-500-024-01	DIODE MM3Z6V2ST1	
D1402	6-500-024-01	DIODE MM3Z6V2ST1	
D1403	6-500-024-01	DIODE MM3Z6V2ST1	
D1404	6-500-024-01	DIODE MM3Z6V2ST1	
D1405	6-500-025-01	DIODE MM3Z6V8ST1	
D1406	8-719-914-43	DIODE DAN202K	
D1409	8-719-083-58	DIODE UDZSTE-173.9B	
D1410	8-719-402-92	DIODE MA3220M-TX	
D1411	8-719-402-92	DIODE MA3220M-TX	
D1412	8-719-988-61	DIODE 1SS355TE-17	
		<FERRITBEAD>	
FB1301	1-216-295-91	SHORT 0	

A1

REF.NO.	PART NO.	DESCRIPTION		REMARK
		<IC>		
IC1101	8-759-190-89	IC TDA7265		
IC1201	8-759-273-12	IC TDA7315D013TR		
IC1202	8-759-576-76	IC TDA2822D013TR		
IC1301	8-759-042-02	IC S-80743AL-A7-S		
IC1601	8-759-069-28	IC PQ05RF11		
IC1602	8-759-653-07	IC PQ09RD21		
IC1603	8-759-520-49	IC PQ30RV21		
IC1604	8-759-644-37	IC PQ5EV3		
IC1605	8-759-069-28	IC PQ05RF11		
		<CHIP CONDUCTOR>		
JR1001	1-216-295-91	SHORT	0	
JR1002	1-216-295-91	SHORT	0	
JR1003	1-216-295-91	SHORT	0	
JR1004	1-216-295-91	SHORT	0	
JR1005	1-216-295-91	SHORT	0	
JR1006	1-216-295-91	SHORT	0	
JR1007	1-216-295-91	SHORT	0	
JR1008	1-216-295-91	SHORT	0	
JR1009	1-216-295-91	SHORT	0	
JR1010	1-216-295-91	SHORT	0	
JR1011	1-216-295-91	SHORT	0	
JR1013	1-216-295-91	SHORT	0	
JR1014	1-216-295-91	SHORT	0	
JR1015	1-216-295-91	SHORT	0	
JR1016	1-216-295-91	SHORT	0	
JR1017	1-216-295-91	SHORT	0	
JR1018	1-216-295-91	SHORT	0	
JR1019	1-216-295-91	SHORT	0	
JR1020	1-216-295-91	SHORT	0	
JR1023	1-216-295-91	SHORT	0	
JR1028	1-216-295-91	SHORT	0	
JR1031	1-216-295-91	SHORT	0	
JR1032	1-216-295-91	SHORT	0	
JR1033	1-216-295-91	SHORT	0	
JR1034	1-216-295-91	SHORT	0	
JR1035	1-216-295-91	SHORT	0	
JR1201	1-216-295-91	SHORT	0	
JR1202	1-216-295-91	SHORT	0	
JR1303	1-216-295-91	SHORT	0	
JR1305	1-216-295-91	SHORT	0	
JR1306	1-216-295-91	SHORT	0	
JR1601	1-216-295-91	SHORT	0	
JR1603	1-216-295-91	SHORT	0	
JR1604	1-414-193-41	INDUCTOR	220UH	
		<COIL>		
L1304	1-414-856-11	INDUCTOR	10UH	
L1305	1-414-856-11	INDUCTOR	10UH	
L1306	1-414-856-11	INDUCTOR	10UH	
L1307	1-414-856-11	INDUCTOR	10UH	
L1308	1-414-856-11	INDUCTOR	10UH	
L1309	1-414-856-11	INDUCTOR	10UH	
L1310	1-414-856-11	INDUCTOR	10UH	
L1311	1-414-856-11	INDUCTOR	10UH	
L1312	1-414-856-11	INDUCTOR	10UH	
L1313	1-414-856-11	INDUCTOR	10UH	
L1314	1-414-856-11	INDUCTOR	10UH	
		<TRANSISTOR>		
Q1101	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q1102	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		
Q1103	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q1104	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q1105	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q1106	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		
Q1201	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		
Q1202	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q1203	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		
Q1204	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q1205	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q1206	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q1207	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q1208	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q1308	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		
Q1309	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		
Q1310	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q1311	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		
Q1312	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q1401	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		
Q1402	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q1409	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		
		<RESISTOR>		
R1101	1-216-049-11	RES-CHIP	1K	5% 1/10W
R1102	1-216-097-11	RES-CHIP	100K	5% 1/10W
R1103	1-249-377-11	CARBON	0.47	5% 1/4W
R1104	1-216-089-91	RES-CHIP	47K	5% 1/10W
R1105	1-216-113-00	RES-CHIP	470K	5% 1/10W
R1106	1-216-089-91	RES-CHIP	47K	5% 1/10W
R1107	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R1108	1-216-073-91	RES-CHIP	10K	5% 1/10W
R1109	1-216-041-00	RES-CHIP	470	5% 1/10W
R1110	1-216-073-91	RES-CHIP	10K	5% 1/10W
R1111	1-216-041-00	RES-CHIP	470	5% 1/10W
R1112	1-216-295-91	SHORT	0	
R1113	1-216-061-91	RES-CHIP	3.3K	5% 1/10W
R1114	1-216-089-91	RES-CHIP	47K	5% 1/10W
R1115	1-216-089-91	RES-CHIP	47K	5% 1/10W
R1116	1-216-295-91	SHORT	0	
R1117	1-216-061-91	RES-CHIP	3.3K	5% 1/10W
R1118	1-216-079-00	RES-CHIP	18K	5% 1/10W
R1119	1-216-079-00	RES-CHIP	18K	5% 1/10W
R1120	1-216-043-91	RES-CHIP	560	5% 1/10W
R1121	1-216-043-91	RES-CHIP	560	5% 1/10W
R1122	1-216-357-00	METAL OXIDE	4.7	5% 1W
R1123	1-249-381-11	CARBON	1	5% 1/4W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

A1 BC4

REF.NO.	PART NO.	DESCRIPTION			REMARK
R1124	1-216-357-00	METAL OXIDE	4.7	5%	1W
R1126	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1127	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1128	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1130	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1201	1-216-033-00	RES-CHIP	220	5%	1/10W
R1202	1-216-033-00	RES-CHIP	220	5%	1/10W
R1203	1-216-033-00	RES-CHIP	220	5%	1/10W
R1204	1-216-033-00	RES-CHIP	220	5%	1/10W
R1206	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R1207	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1209	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R1210	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1211	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1212	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1213	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1214	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1215	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R1216	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1217	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1218	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1219	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1220	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1221	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1222	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1223	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1224	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1225	1-216-033-00	RES-CHIP	220	5%	1/10W
R1226	1-216-033-00	RES-CHIP	220	5%	1/10W
R1228	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1229	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1230	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R1231	1-216-017-91	RES-CHIP	47	5%	1/10W
R1232	1-216-017-91	RES-CHIP	47	5%	1/10W
R1233	1-216-017-91	RES-CHIP	47	5%	1/10W
R1234	1-216-017-91	RES-CHIP	47	5%	1/10W
R1235	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1236	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1237	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1249	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R1329	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1330	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1331	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1332	1-216-043-91	RES-CHIP	560	5%	1/10W
R1333	1-216-039-00	RES-CHIP	390	5%	1/10W
R1334	1-216-025-11	RES-CHIP	100	5%	1/10W
R1335	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1336	1-216-025-11	RES-CHIP	100	5%	1/10W
R1337	1-216-017-91	RES-CHIP	47	5%	1/10W
R1338	1-216-295-91	SHORT	0		
R1341	1-216-025-11	RES-CHIP	100	5%	1/10W
R1342	1-216-295-91	SHORT	0		
R1344	1-216-043-91	RES-CHIP	560	5%	1/10W
R1345	1-216-039-00	RES-CHIP	390	5%	1/10W
R1346	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1347	1-216-025-11	RES-CHIP	100	5%	1/10W
R1348	1-216-025-11	RES-CHIP	100	5%	1/10W
R1349	1-216-025-11	RES-CHIP	100	5%	1/10W
R1350	1-216-025-11	RES-CHIP	100	5%	1/10W
R1351	1-216-017-91	RES-CHIP	47	5%	1/10W
R1352	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1402	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1403	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R1404	1-216-025-11	RES-CHIP	100	5%	1/10W
R1405	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R1406	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R1407	1-208-817-11	METAL CHIP	30K	0.5%	1/10W
R1408	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R1409	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1436	1-216-295-91	SHORT	0		
R1437	1-216-295-91	SHORT	0		
R1438	1-216-295-91	SHORT	0		
R1439	1-216-295-91	SHORT	0		
R1440	1-216-295-91	SHORT	0		
R1441	1-216-295-91	SHORT	0		
R1452	1-216-295-91	SHORT	0		
R1453	1-216-295-91	SHORT	0		
R1460	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1461	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1462	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1469	1-535-143-71	LEAD, JUMPER (7.5MM)			
R1601	1-216-295-91	SHORT	0		
R1608	1-208-778-11	METAL CHIP	680	0.5%	1/10W
R1610	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R1611	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R1613	1-216-641-11	METAL CHIP	390	0.5%	1/10W
		<RELAY>			
RV2001	1-223-271-21	RES, ADJ, CERMET 220			
RY1101	1-755-028-11	RELAY			
RY1102	1-755-028-11	RELAY			
		<TUNER>			
TU1303⚠	8-598-508-10	TUNER, FSS BTF-LG436			
TU1304⚠	8-598-452-30	TUNER, FSS BTF-WG442			
		**********			
		* A-1136-193-A BC4 BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C2003	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2005	1-163-131-00	CERAMIC CHIP	390PF	5.00%	50V
C2006	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2010	1-163-102-00	CERAMIC CHIP	24PF	5.00%	50V
C2011	1-163-102-00	CERAMIC CHIP	24PF	5.00%	50V
C2015	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2016	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2017	1-165-319-11	CERAMIC CHIP	0.1UF		50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C2018	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2021	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2024	1-216-295-91	SHORT 0	
C2029	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2030	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2031	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2032	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2033	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2034	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2035	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2036	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2037	1-126-947-11	ELECT 47UF	20.00% 16V
C2038	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2039	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2040	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2041	1-126-924-11	ELECT 330UF	20.00% 6.3V
C2042	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2044	1-126-947-11	ELECT 47UF	20.00% 16V
C2045	1-163-106-00	CERAMIC CHIP 36PF	5.00% 50V
C2046	1-126-964-11	ELECT 10UF	20.00% 50V
C2047	1-164-505-11	CERAMIC CHIP 2.2UF	16V
C2048	1-126-964-11	ELECT 10UF	20.00% 50V
C2049	1-126-960-11	ELECT 1UF	20.00% 50V
C2050	1-163-231-11	CERAMIC CHIP 15PF	5.00% 50V
C2051	1-126-964-11	ELECT 10UF	20.00% 50V
C2052	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V
C2053	1-109-889-11	ELECT 1UF	20.00% 50V
C2054	1-126-947-11	ELECT 47UF	20.00% 16V
C2055	1-126-947-11	ELECT 47UF	20.00% 16V
C2056	1-163-231-11	CERAMIC CHIP 15PF	5.00% 50V
C2057	1-163-031-91	CERAMIC CHIP 0.01UF	50V
C2058	1-163-031-91	CERAMIC CHIP 0.01UF	50V
C2059	1-126-947-11	ELECT 47UF	20.00% 16V
C2060	1-163-031-91	CERAMIC CHIP 0.01UF	50V
C2061	1-163-031-91	CERAMIC CHIP 0.01UF	50V
C2062	1-126-947-11	ELECT 47UF	20.00% 16V
C2063	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2064	1-163-031-91	CERAMIC CHIP 0.01UF	50V
C2065	1-163-031-91	CERAMIC CHIP 0.01UF	50V
C2066	1-126-947-11	ELECT 47UF	20.00% 16V
C2067	1-126-947-11	ELECT 47UF	20.00% 16V
C2068	1-126-947-11	ELECT 47UF	20.00% 16V
C2069	1-163-031-91	CERAMIC CHIP 0.01UF	50V
C2070	1-126-947-11	ELECT 47UF	20.00% 16V
C2071	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2072	1-163-237-11	CERAMIC CHIP 27PF	5.00% 50V
C2074	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2075	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2078	1-126-947-11	ELECT 47UF	20.00% 16V
C2079	1-163-031-91	CERAMIC CHIP 0.01UF	50V
C2080	1-163-031-91	CERAMIC CHIP 0.01UF	50V
C2095	1-163-231-11	CERAMIC CHIP 15PF	5.00% 50V
C2096	1-163-231-11	CERAMIC CHIP 15PF	5.00% 50V
C2097	1-163-231-11	CERAMIC CHIP 15PF	5.00% 50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CN2001 *	1-774-184-11	PIN, CONNECTOR (PC BOARD) 15P	
		<FERRITBEAD>	
FB2002	1-414-234-22	FERRITE 0UH	
FB2008	1-414-234-22	FERRITE 0UH	
FB2009	1-414-234-22	FERRITE 0UH	
FB2010	1-414-234-22	FERRITE 0UH	
FB2011	1-414-234-22	FERRITE 0UH	
FB2012	1-414-234-22	FERRITE 0UH	
FB2014	1-414-234-22	FERRITE 0UH	
FB2015	1-414-234-22	FERRITE 0UH	
FB2016	1-414-234-22	FERRITE 0UH	
FB2017	1-414-234-22	FERRITE 0UH	
		<FILTER>	
FL2001	1-239-848-11	FILTER, LOW PASS	
FL2002	1-239-848-11	FILTER, LOW PASS	
FL2003	1-239-848-11	FILTER, LOW PASS	
FL2004	1-239-848-11	FILTER, LOW PASS	
FL2005	1-233-736-21	FILTER, EMI	
FL2006	1-233-736-21	FILTER, EMI	
FL2007	1-233-736-21	FILTER, EMI	
		<IC>	
IC2003	6-700-188-01	IC IS41C16256-35K	
IC2004	8-759-594-44	IC UPD64082GF-3BA	
IC2005	8-759-431-14	IC PQ3TZ53U	
		<COIL>	
L2001	1-410-200-31	INDUCTOR 4.7UH	
L2004	1-412-058-11	INDUCTOR 10UH	
L2005	1-412-058-11	INDUCTOR 10UH	
L2006	1-412-058-11	INDUCTOR 10UH	
L2007	1-412-058-11	INDUCTOR 10UH	
L2008	1-412-058-11	INDUCTOR 10UH	
		<TRANSISTOR>	
Q2002	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2003	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2004	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2005	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q2006	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q2007	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q2008	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q2009	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q2010	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q2011	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q2012	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2013	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2014	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	

REF.NO.	PART NO.	DESCRIPTION			REMARK
Q2015	8-729-422-33	TRANSISTOR 2SD601A-Q-TX			
Q2016	8-729-422-33	TRANSISTOR 2SD601A-Q-TX			
Q2018	8-729-216-22	TRANSISTOR 2SA1162-G			
Q2019	8-729-422-33	TRANSISTOR 2SD601A-Q-TX			
		<RESISTOR>			
R2001	1-216-097-11	RES-CHIP	100K	5%	1/10W
R2011	1-216-041-00	RES-CHIP	470	5%	1/10W
R2015	1-216-041-00	RES-CHIP	470	5%	1/10W
R2019	1-216-295-91	SHORT	0		
R2021	1-216-025-11	RES-CHIP	100	5%	1/10W
R2027	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2028	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2029	1-216-043-91	RES-CHIP	560	5%	1/10W
R2030	1-216-043-91	RES-CHIP	560	5%	1/10W
R2031	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2032	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2033	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2034	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2035	1-216-043-91	RES-CHIP	560	5%	1/10W
R2036	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R2037	1-216-044-00	RES-CHIP	620	5%	1/10W
R2039	1-216-047-91	RES-CHIP	820	5%	1/10W
R2040	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2041	1-216-047-91	RES-CHIP	820	5%	1/10W
R2042	1-216-075-00	RES-CHIP	12K	5%	1/10W
R2043	1-216-085-91	RES-CHIP	33K	5%	1/10W
R2044	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2046	1-216-075-00	RES-CHIP	12K	5%	1/10W
R2047	1-216-085-91	RES-CHIP	33K	5%	1/10W
R2048	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2049	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2050	1-216-017-91	RES-CHIP	47	5%	1/10W
R2051	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2052	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2053	1-216-041-00	RES-CHIP	470	5%	1/10W
R2054	1-216-041-00	RES-CHIP	470	5%	1/10W
R2055	1-216-017-91	RES-CHIP	47	5%	1/10W
R2056	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2057	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2058	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2059	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2060	1-216-025-11	RES-CHIP	100	5%	1/10W
R2061	1-216-043-91	RES-CHIP	560	5%	1/10W
R2062	1-216-105-91	RES-CHIP	220K	5%	1/10W
R2063	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2064	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2066	1-216-033-00	RES-CHIP	220	5%	1/10W
R2067	1-216-043-91	RES-CHIP	560	5%	1/10W
R2069	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R2070	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R2071	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2072	1-216-043-91	RES-CHIP	560	5%	1/10W
R2073	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2074	1-216-025-11	RES-CHIP	100	5%	1/10W
R2075	1-216-295-91	SHORT	0		
R2076	1-216-025-11	RES-CHIP	100	5%	1/10W
R2077	1-216-025-11	RES-CHIP	100	5%	1/10W
R2078	1-216-295-91	SHORT	0		
R2092	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2093	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2104	1-216-295-91	SHORT	0		
R2105	1-216-295-91	SHORT	0		
R2106	1-216-295-91	SHORT	0		
R2107	1-216-295-91	SHORT	0		
R2108	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2110	1-216-295-91	SHORT	0		
R2112	1-216-295-91	SHORT	0		
R2113	1-216-017-91	RES-CHIP	47	5%	1/10W
R2115	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2116	1-216-295-91	SHORT	0		
R2117	1-216-295-91	SHORT	0		
R2118	1-216-296-11	SHORT	0		
R2119	1-216-296-11	SHORT	0		
R2200	1-216-296-11	SHORT	0		
		<CRYSTAL>			
X2001	1-767-606-11	VIBRATOR, CRYSTAL			
**********					
		*A-1346-922-A E BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C4301	1-126-960-11	ELECT	1UF	20.00%	50V
C4302	1-164-489-11	CERAMIC CHIP	0.22UF	10.00%	16V
C4303	1-163-809-11	CERAMIC CHIP	0.047UF	10.00%	25V
C4304	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4306	1-126-964-11	ELECT	10UF	20.00%	50V
C4307	1-163-137-00	CERAMIC CHIP	680PF	5.00%	50V
C4311	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4312	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4313	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4315	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C4316	1-126-947-11	ELECT	47UF	20.00%	25V
C4317	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4318	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4319	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4324	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4325	1-163-093-00	CERAMIC CHIP	10PF	5.00%	50V
C4329	1-126-963-11	ELECT	4.7UF	20.00%	50V
C4330	1-137-581-11	FILM	0.1UF	5.00%	100V
C4331	1-126-959-11	ELECT	0.47UF	20.00%	50V
C4333	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4334	1-126-967-11	ELECT	47UF	20.00%	50V
C4336	1-126-967-11	ELECT	47UF	20.00%	50V
C4338	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4340	1-126-967-11	ELECT	47UF	20.00%	50V
C4342	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V

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REF.NO.	PART NO.	DESCRIPTION		REMARK
C4343	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4344	1-126-960-11	ELECT	1UF	20.00% 50V
C4345	1-126-967-11	ELECT	47UF	20.00% 50V
C4346	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4347	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4348	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4349	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4350	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4351	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00% 50V
C4352	1-126-967-11	ELECT	47UF	20.00% 50V
C4353	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C4354	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C4355	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4356	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4357	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4358	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4359	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00% 50V
C4360	1-126-964-11	ELECT	10UF	20.00% 50V
C4362	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4363	1-126-967-11	ELECT	47UF	20.00% 50V
C4364	1-126-967-11	ELECT	47UF	20.00% 50V
C4368	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4369	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4370	1-126-967-11	ELECT	47UF	20.00% 50V
C4371	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4372	1-164-505-11	CERAMIC CHIP	2.2UF	16V
C4373	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4374	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4377	1-126-960-11	ELECT	1UF	20.00% 50V
C4382	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4383	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4384	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C4601	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00% 50V
		<CONNECTOR>		
CN4101	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P		
CN4500 *	1-564-512-11	PLUG, CONNECTOR 9P		
CN4502 *	1-564-507-11	PLUG, CONNECTOR 4P		
		<DIODE>		
D4304	8-719-069-60	DIODE UDZSTE-179.1B		
D4305	8-719-069-60	DIODE UDZSTE-179.1B		
D4601	8-719-401-63	DIODE MA3062M-TX		
D4602	8-719-914-43	DIODE DAN202K		
D4603	8-719-914-43	DIODE DAN202K		
		<FERRITBEAD>		
FB4387	1-216-295-91	SHORT	0	
FB4388	1-216-295-91	SHORT	0	
FB4389	1-216-295-91	SHORT	0	

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<IC>			
IC4301	8-752-090-87	IC CXA2100AQ			
		<CHIP CONDUCTOR>			
JR4301	1-216-295-91	SHORT	0		
JR4302	1-216-037-00	RES-CHIP	330	5%	1/10W
		<COIL>			
L4301	1-412-029-11	INDUCTOR	10UH		
L4302	1-412-029-11	INDUCTOR	10UH		
L4303	1-412-029-11	INDUCTOR	10UH		
L4304	1-412-029-11	INDUCTOR	10UH		
L4305	1-412-029-11	INDUCTOR	10UH		
L4306	1-412-029-11	INDUCTOR	10UH		
L4308	1-412-031-11	INDUCTOR	47UH		
L4309	1-412-031-11	INDUCTOR	47UH		
		<TRANSISTOR>			
Q4301	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q4303	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4304	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4307	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4308	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4310	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4316	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4317	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4318	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4319	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q4320	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4321	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4322	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4323	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4324	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4601	1-801-806-11	TRANSISTOR DTC144EKA			
Q4602	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
		<RESISTOR>			
R4301	1-216-025-11	RES-CHIP	100	5%	1/10W
R4302	1-216-025-11	RES-CHIP	100	5%	1/10W
R4303	1-216-025-11	RES-CHIP	100	5%	1/10W
R4304	1-216-025-11	RES-CHIP	100	5%	1/10W
R4305	1-216-025-11	RES-CHIP	100	5%	1/10W
R4306	1-216-045-00	RES-CHIP	680	5%	1/10W
R4307	1-216-295-91	SHORT	0		
R4309	1-216-295-91	SHORT	0		
R4313	1-216-033-00	RES-CHIP	220	5%	1/10W
R4314	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4315	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R4316	1-216-037-00	RES-CHIP	330	5%	1/10W
R4317	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4319	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4320	1-216-689-11	RES-CHIP	39K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R4321	1-216-105-91	RES-CHIP	220K	5%	1/10W
R4322	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4323	1-216-091-00	RES-CHIP	56K	5%	1/10W
R4324	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R4325	1-216-093-91	RES-CHIP	68K	5%	1/10W
R4331	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R4332	1-216-295-91	SHORT	0		
R4334	1-216-025-11	RES-CHIP	100	5%	1/10W
R4335	1-216-025-11	RES-CHIP	100	5%	1/10W
R4336	1-216-025-11	RES-CHIP	100	5%	1/10W
R4337	1-216-025-11	RES-CHIP	100	5%	1/10W
R4339	1-249-409-11	CARBON	220	5%	1/4W
R4340	1-216-111-00	RES-CHIP	390K	5%	1/10W
R4341	1-216-295-91	SHORT	0		
R4343	1-216-025-11	RES-CHIP	100	5%	1/10W
R4344	1-216-025-11	RES-CHIP	100	5%	1/10W
R4345	1-216-075-00	RES-CHIP	12K	5%	1/10W
R4346	1-208-812-11	METAL CHIP	18K	0.5%	1/10W
R4347	1-216-025-11	RES-CHIP	100	5%	1/10W
R4348	1-216-025-11	RES-CHIP	100	5%	1/10W
R4349	1-216-033-00	RES-CHIP	220	5%	1/10W
R4350	1-216-025-11	RES-CHIP	100	5%	1/10W
R4352	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4354	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R4355	1-216-295-91	SHORT	0		
R4357	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R4358	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W
R4359	1-216-041-00	RES-CHIP	470	5%	1/10W
R4360	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R4361	1-216-133-91	RES-CHIP	3.3M	5%	1/10W
R4363	1-216-025-11	RES-CHIP	100	5%	1/10W
R4365	1-216-017-91	RES-CHIP	47	5%	1/10W
R4366	1-216-017-91	RES-CHIP	47	5%	1/10W
R4367	1-216-017-91	RES-CHIP	47	5%	1/10W
R4370	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4372	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4375	1-216-033-00	RES-CHIP	220	5%	1/10W
R4377	1-216-033-00	RES-CHIP	220	5%	1/10W
R4380	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4382	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4384	1-216-025-11	RES-CHIP	100	5%	1/10W
R4385	1-216-129-00	RES-CHIP	2.2M	5%	1/10W
R4387	1-216-017-91	RES-CHIP	47	5%	1/10W
R4388	1-216-017-91	RES-CHIP	47	5%	1/10W
R4389	1-216-017-91	RES-CHIP	47	5%	1/10W
R4393	1-216-025-11	RES-CHIP	100	5%	1/10W
R4395	1-216-295-91	SHORT	0		
R4396	1-216-295-91	SHORT	0		
R4397	1-216-295-91	SHORT	0		
R4400	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R4401	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R4402	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4403	1-216-298-00	RES-CHIP	2.2	5%	1/10W
R4404	1-216-081-00	RES-CHIP	22K	5%	1/10W
R4405	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R4406	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4407	1-216-017-91	RES-CHIP	47	5%	1/10W
R4408	1-249-409-11	CARBON	220	5%	1/4W
R4504	1-216-025-11	RES-CHIP	100	5%	1/10W
R4514	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R4515	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R4516	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4517	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4518	1-216-025-11	RES-CHIP	100	5%	1/10W
R4519	1-216-025-11	RES-CHIP	100	5%	1/10W
R4520	1-216-045-00	RES-CHIP	680	5%	1/10W
R4521	1-216-045-00	RES-CHIP	680	5%	1/10W
R4522	1-216-025-11	RES-CHIP	100	5%	1/10W
R4523	1-216-025-11	RES-CHIP	100	5%	1/10W
R4524	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4601	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R4602	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4603	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
		<TRANSFORMER>			
T4301	1-469-893-11	INDUCTOR (EMI REMOVE FILTER)			
		<CRYSTAL>			
X4300	1-767-127-11	VIBRATOR, CERAMIC (503.5kHz)			
**********					
		* A-1385-192-A J1 BOARD, COMPLETE (ER43M91, ER53M91)			
		**********			
		* A-1395-982-A J1 BOARD, COMPLETE (ER43M31/M61/M90, ER53M31/M61/M90)			
		**********			
		<CAPACITOR>			
C8301	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8302	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8303	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8304	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8305	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8306	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8307	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8308	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8309	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8310	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8311	1-164-346-11	CERAMIC CHIP	1UF		16V
C8312	1-164-346-11	CERAMIC CHIP	1UF		16V
C8313	1-164-346-11	CERAMIC CHIP	1UF		16V
C8314	1-164-346-11	CERAMIC CHIP	1UF		16V
C8315	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8316	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8317	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8318	1-126-947-11	ELECT	47UF	20.00%	16V
C8319	1-126-947-11	ELECT	47UF	20.00%	16V
C8320	1-117-720-11	CERAMIC CHIP	4.7UF		10V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C8321	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8322	1-164-346-11	CERAMIC CHIP	1UF		16V
C8323	1-164-346-11	CERAMIC CHIP	1UF		16V
C8324	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8325	1-126-935-11	ELECT	470UF	20.00%	16V
C8326	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8327	1-164-346-11	CERAMIC CHIP	1UF		16V
C8328	1-164-346-11	CERAMIC CHIP	1UF		16V
C8329	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8330	1-164-346-11	CERAMIC CHIP	1UF		16V
C8331	1-164-346-11	CERAMIC CHIP	1UF		16V
C8332	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8333	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8334	1-163-249-11	CERAMIC CHIP	82PF	5.00%	50V
C8336	1-126-947-11	ELECT	47UF	20.00%	16V
C8337	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8338	1-164-346-11	CERAMIC CHIP	1UF		16V
C8339	1-164-346-11	CERAMIC CHIP	1UF		16V
C8340	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8341	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8342	1-126-964-11	ELECT	10UF	20.00%	50V
C8343	1-126-947-11	ELECT	47UF	20.00%	16V
C8344	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8345	1-126-947-11	ELECT	47UF	20.00%	16V
C8346	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8347	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8348	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8349	1-126-947-11	ELECT	47UF	20.00%	16V
C8350	1-164-346-11	CERAMIC CHIP	1UF		16V
C8351	1-164-346-11	CERAMIC CHIP	1UF		16V
C8352	1-126-947-11	ELECT	47UF	20.00%	16V
C8354	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8355	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8356	1-164-346-11	CERAMIC CHIP	1UF		16V
C8357	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8358	1-164-346-11	CERAMIC CHIP	1UF		16V
C8359	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
C8360	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8361	1-126-961-11	ELECT	2.2UF	20.00%	50V
C8362	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8363	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8366	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8367	1-126-947-11	ELECT	47UF	20.00%	16V
C8368	1-126-947-11	ELECT	47UF	20.00%	16V
C8369	1-126-947-11	ELECT	47UF	20.00%	16V
C8370	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8371	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8372	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8373	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C8374	1-164-346-11	CERAMIC CHIP	1UF		16V
C8375	1-126-964-11	ELECT	10UF	20.00%	50V
C8376	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8381	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8386	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8390	1-126-963-11	ELECT	4.7UF	20.00%	50V
C8391	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8392	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8393	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8396	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8397	1-163-217-11	CERAMIC CHIP	1PF	0.25PF	50V
C8399	1-126-961-11	ELECT	2.2UF	20.00%	50V
C8401	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8402	1-164-346-11	CERAMIC CHIP	1UF		16V
C8403	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
C8406	1-126-947-11	ELECT	47UF	20.00%	16V
C8407	1-126-947-11	ELECT	47UF	20.00%	16V
C8408	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8410	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8411	1-163-217-11	CERAMIC CHIP	1PF	0.25PF	50V
C8412	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8414	1-126-947-11	ELECT	47UF	20.00%	16V
C8415	1-164-346-11	CERAMIC CHIP	1UF		16V
C8416	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8417	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C8418	1-126-964-11	ELECT	10UF	20.00%	50V
C8419	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8424	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8425	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8437	1-126-963-11	ELECT	4.7UF	20.00%	50V
C8438	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8439	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8440	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8446	1-126-947-11	ELECT	47UF	20.00%	16V
C8447	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8448	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V
C8450	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8451	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C8453	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8454	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8455	1-126-947-11	ELECT	47UF	20.00%	16V
C8464	1-115-340-11	CERAMIC CHIP	0.22UF	10.00%	25V
C8465	1-115-340-11	CERAMIC CHIP	0.22UF	10.00%	25V
C8466	1-126-947-11	ELECT	47UF	20.00%	16V
C8467	1-126-947-11	ELECT	47UF	20.00%	16V
C8468	1-115-340-11	CERAMIC CHIP	0.22UF	10.00%	25V
C8469	1-115-340-11	CERAMIC CHIP	0.22UF	10.00%	25V
C8474	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8477	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8478	1-163-243-11	CERAMIC CHIP	47PF	5.00%	50V
C8479	1-163-239-11	CERAMIC CHIP	33PF	5.00%	50V
C8481	1-126-947-11	ELECT	47UF	20.00%	16V
C8482	1-126-947-11	ELECT	47UF	20.00%	16V
C8483	1-126-947-11	ELECT	47UF	20.00%	16V
C8485	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8492	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8501	1-163-247-91	CERAMIC CHIP	68PF	5.00%	50V
C8601	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8602	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8603	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8604	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8605	1-117-720-11	CERAMIC CHIP	4.7UF		10V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C8606	1-117-720-11	CERAMIC CHIP 4.7UF	10V
C8801	1-115-340-11	CERAMIC CHIP 0.22UF 10.00%	25V
C8802	1-163-021-91	CERAMIC CHIP 0.01UF 10.00%	50V
C8804	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C8805	1-126-933-11	ELECT 100UF 20.00%	16V
C8806	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C8807	1-163-037-11	CERAMIC CHIP 0.022UF 10.00%	50V
C8808	1-126-933-11	ELECT 100UF 20.00%	16V
C8809	1-163-021-91	CERAMIC CHIP 0.01UF 10.00%	50V
C8810	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C8811	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C8812	1-126-947-11	ELECT 47UF 20.00%	16V
C8813	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C8814	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C8815	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C8816	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C8817	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C8818	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C8819	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C8820	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C8821	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C8823	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C8824	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C8826	1-164-004-11	CERAMIC CHIP 0.1UF 10.00%	25V
C8828	1-126-947-11	ELECT 47UF 20.00%	16V
C8829	1-163-241-11	CERAMIC CHIP 39PF 5.00%	50V
C8830	1-126-947-11	ELECT 47UF 20.00%	16V
		<CONNECTOR>	
CN8101	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
CN8301 *	1-564-526-31	PLUG, CONNECTOR 11P	
		<DIODE>	
D8101	8-719-083-69	DIODE UDZSTE-1724B	
D8102	8-719-083-69	DIODE UDZSTE-1724B	
D8103	8-719-083-69	DIODE UDZSTE-1724B	
D8104	8-719-083-69	DIODE UDZSTE-1724B	
D8301	6-500-027-01	DIODE MM3Z8V2ST1	
D8302	6-500-027-01	DIODE MM3Z8V2ST1	
D8303	6-500-027-01	DIODE MM3Z8V2ST1	
D8304	6-500-027-01	DIODE MM3Z8V2ST1	
D8305	6-500-027-01	DIODE MM3Z8V2ST1	
D8306	6-500-027-01	DIODE MM3Z8V2ST1	
D8307	6-500-027-01	DIODE MM3Z8V2ST1	
D8308	6-500-027-01	DIODE MM3Z8V2ST1	
D8309	6-500-027-01	DIODE MM3Z8V2ST1	
D8310	6-500-027-01	DIODE MM3Z8V2ST1	
D8311	6-500-027-01	DIODE MM3Z8V2ST1	
D8312	6-500-027-01	DIODE MM3Z8V2ST1	
D8313	6-500-027-01	DIODE MM3Z8V2ST1	
D8314	6-500-027-01	DIODE MM3Z8V2ST1	
D8315	8-719-914-42	DIODE DA204K	
D8316	8-719-914-42	DIODE DA204K	
D8317	8-719-914-42	DIODE DA204K	
D8318	6-500-027-01	DIODE MM3Z8V2ST1	
D8319	6-500-027-01	DIODE MM3Z8V2ST1	
D8320	6-500-027-01	DIODE MM3Z8V2ST1	
D8321	6-500-027-01	DIODE MM3Z8V2ST1	
D8322	6-500-027-01	DIODE MM3Z8V2ST1	
D8323	6-500-027-01	DIODE MM3Z8V2ST1	
D8324	6-500-027-01	DIODE MM3Z8V2ST1	
D8325	6-500-027-01	DIODE MM3Z8V2ST1	
D8331	8-719-404-50	DIODE MA111-TX	
D8332	8-719-914-42	DIODE DA204K	
D8333	6-500-027-01	DIODE MM3Z8V2ST1	
D8334	8-719-914-42	DIODE DA204K	
D8335	8-719-914-42	DIODE DA204K	
D8336	6-500-027-01	DIODE MM3Z8V2ST1	
D8337	8-719-404-50	DIODE MA111-TX	
		<FILTER>	
FL8301	1-236-071-11	ENCAPSULATED COMPONENT	
FL8302	1-236-071-11	ENCAPSULATED COMPONENT	
FL8303	1-236-071-11	ENCAPSULATED COMPONENT	
FL8304	1-236-071-11	ENCAPSULATED COMPONENT	
FL8305	1-236-071-11	ENCAPSULATED COMPONENT	
FL8307	1-236-071-11	ENCAPSULATED COMPONENT	
FL8308	1-236-071-11	ENCAPSULATED COMPONENT	
FL8309	1-236-071-11	ENCAPSULATED COMPONENT	
FL8311	1-236-071-11	ENCAPSULATED COMPONENT	
FL8312	1-236-071-11	ENCAPSULATED COMPONENT	
FL8313	1-233-877-11	FILTER, LOW PASS	
FL8314	1-233-504-21	FILTER, LOW PASS	
FL8315	1-233-504-21	FILTER, LOW PASS	
FL8801	1-236-071-11	ENCAPSULATED COMPONENT	
FL8802	1-236-071-11	ENCAPSULATED COMPONENT	
FL8803	1-233-765-21	FILTER	
FL8804	1-233-766-21	FILTER	
FL8805	1-233-768-21	FILTER	
		<IC>	
IC8302	8-752-080-04	IC CXA2069Q	
IC8304	8-759-242-76	IC TC7W08F	
IC8305	8-759-242-76	IC TC7W08F	
IC8306	8-752-096-08	IC CXA2123BQ-T6	
IC8308	8-752-096-08	IC CXA2123BQ-T6	
IC8309	8-759-337-26	IC MM1115XFBE	
IC8310	8-759-572-04	IC TDA9178T/N1.118	
IC8311	8-759-576-72	IC LF50CDT-TR	
IC8312	8-759-576-72	IC LF50CDT-TR	
IC8801	8-752-390-37	IC CXD2064Q-T6	
		<JACK>	
J8301	1-774-748-11	TERMINAL BLOCK, S (VIDEO IN 1)	
J8302	1-750-517-11	JACK BLOCK, PIN 3P (VIDEO IN 2)	
J8303	1-750-517-11	JACK BLOCK, PIN 3P (VIDEO IN 3)	
J8304	1-750-517-11	JACK BLOCK, PIN 3P (MOMITOR OUT)	
J8305	1-815-015-11	JACK BLOCK, PIN (COMPONENT IN)	

REF.NO.	PART NO.	DESCRIPTION	REMARK
J8901	1-565-838-11	JACK BLOCK, PIN 2P (AUDIO OUT)	
		<COIL>	
L8101	1-402-711-11	INDUCTOR 0UH	
L8102	1-402-711-11	INDUCTOR 0UH	
L8304	1-412-029-11	INDUCTOR 10UH	
L8305	1-414-196-41	INDUCTOR 47UH	
L8306	1-414-196-41	INDUCTOR 47UH	
L8307	1-414-196-41	INDUCTOR 47UH	
L8501	1-412-029-11	INDUCTOR 10UH	
L8801	1-412-029-11	INDUCTOR 10UH	
L8802	1-412-029-11	INDUCTOR 10UH	
		<TRANSISTOR>	
Q8301	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8302	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8304	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8306	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8307	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8308	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8309	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8316	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8317	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8318	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8319	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8321	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8322	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8323	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8324	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8326	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8327	1-801-806-11	TRANSISTOR DTC144EKA	
Q8328	1-801-806-11	TRANSISTOR DTC144EKA	
Q8332	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8338	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8340	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8401	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8402	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8405	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8406	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8407	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8408	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8409	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8410	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8411	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8412	1-801-806-11	TRANSISTOR DTC144EKA	
Q8413	1-801-806-11	TRANSISTOR DTC144EKA	
Q8414	1-801-806-11	TRANSISTOR DTC144EKA	
Q8415	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8416	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8417	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8418	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8419	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8420	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8421	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8422	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8423	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8424	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8425	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8426	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8601	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8602	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8603	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8604	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8605	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8606	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8607	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8801	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8802	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8803	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8804	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8805	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8807	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8808	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8809	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8810	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8811	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<RESISTOR>	
R8301	1-216-041-00	RES-CHIP 470 5% 1/10W	
R8302	1-216-041-00	RES-CHIP 470 5% 1/10W	
R8303	1-216-021-00	RES-CHIP 68 5% 1/10W	
R8304	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R8305	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R8306	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8307	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8308	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R8309	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R8310	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8311	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R8312	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R8313	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8314	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R8315	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R8316	1-216-113-00	RES-CHIP 470K 5% 1/10W	
R8317	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8318	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8319	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8320	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R8321	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R8322	1-216-022-00	RES-CHIP 75 5% 1/10W	
R8323	1-216-025-11	RES-CHIP 100 5% 1/10W	
R8324	1-216-025-11	RES-CHIP 100 5% 1/10W	
R8325	1-216-025-11	RES-CHIP 100 5% 1/10W	
R8326	1-216-105-91	RES-CHIP 220K 5% 1/10W	
R8327	1-216-025-11	RES-CHIP 100 5% 1/10W	
R8328	1-216-113-00	RES-CHIP 470K 5% 1/10W	
R8329	1-216-113-00	RES-CHIP 470K 5% 1/10W	
R8330	1-216-022-00	RES-CHIP 75 5% 1/10W	

J1

REF.NO.	PART NO.	DESCRIPTION			REMARK
R8331	1-216-025-11	RES-CHIP	100	5%	1/10W
R8332	1-216-025-11	RES-CHIP	100	5%	1/10W
R8333	1-216-025-11	RES-CHIP	100	5%	1/10W
R8334	1-216-025-11	RES-CHIP	100	5%	1/10W
R8335	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8336	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8337	1-216-022-00	RES-CHIP	75	5%	1/10W
R8338	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8339	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8340	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8341	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8342	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8343	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8344	1-216-022-00	RES-CHIP	75	5%	1/10W
R8345	1-216-025-11	RES-CHIP	100	5%	1/10W
R8346	1-216-025-11	RES-CHIP	100	5%	1/10W
R8347	1-216-025-11	RES-CHIP	100	5%	1/10W
R8348	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8349	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8350	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8351	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8352	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8353	1-216-295-91	SHORT	0		
R8354	1-216-041-00	RES-CHIP	470	5%	1/10W
R8355	1-216-017-91	RES-CHIP	47	5%	1/10W
R8356	1-216-017-91	RES-CHIP	47	5%	1/10W
R8357	1-216-041-00	RES-CHIP	470	5%	1/10W
R8362	1-216-642-11	METAL CHIP	430	0.5%	1/10W
R8363	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R8364	1-216-041-00	RES-CHIP	470	5%	1/10W
R8365	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R8366	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R8367	1-216-041-00	RES-CHIP	470	5%	1/10W
R8368	1-216-041-00	RES-CHIP	470	5%	1/10W
R8369	1-216-295-91	SHORT	0		
R8370	1-216-025-11	RES-CHIP	100	5%	1/10W
R8373	1-216-039-00	RES-CHIP	390	5%	1/10W
R8374	1-216-041-00	RES-CHIP	470	5%	1/10W
R8375	1-216-017-91	RES-CHIP	47	5%	1/10W
R8376	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8377	1-216-025-11	RES-CHIP	100	5%	1/10W
R8378	1-216-033-00	RES-CHIP	220	5%	1/10W
R8379	1-216-033-00	RES-CHIP	220	5%	1/10W
R8380	1-216-025-11	RES-CHIP	100	5%	1/10W
R8381	1-216-025-11	RES-CHIP	100	5%	1/10W
R8382	1-216-033-00	RES-CHIP	220	5%	1/10W
R8383	1-216-033-00	RES-CHIP	220	5%	1/10W
R8384	1-216-025-11	RES-CHIP	100	5%	1/10W
R8385	1-216-025-11	RES-CHIP	100	5%	1/10W
R8386	1-216-025-11	RES-CHIP	100	5%	1/10W
R8387	1-216-017-91	RES-CHIP	47	5%	1/10W
R8388	1-216-031-00	RES-CHIP	180	5%	1/10W
R8389	1-216-033-00	RES-CHIP	220	5%	1/10W
R8390	1-216-017-91	RES-CHIP	47	5%	1/10W
R8391	1-216-017-91	RES-CHIP	47	5%	1/10W
R8392	1-216-017-91	RES-CHIP	47	5%	1/10W
R8393	1-216-017-91	RES-CHIP	47	5%	1/10W
R8394	1-216-025-11	RES-CHIP	100	5%	1/10W
R8395	1-216-033-00	RES-CHIP	220	5%	1/10W
R8396	1-216-033-00	RES-CHIP	220	5%	1/10W
R8397	1-216-025-11	RES-CHIP	100	5%	1/10W
R8398	1-216-025-11	RES-CHIP	100	5%	1/10W
R8399	1-216-025-11	RES-CHIP	100	5%	1/10W
R8400	1-216-025-11	RES-CHIP	100	5%	1/10W
R8401	1-216-017-91	RES-CHIP	47	5%	1/10W
R8402	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R8403	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R8404	1-216-025-11	RES-CHIP	100	5%	1/10W
R8405	1-216-033-00	RES-CHIP	220	5%	1/10W
R8406	1-216-033-00	RES-CHIP	220	5%	1/10W
R8407	1-216-033-00	RES-CHIP	220	5%	1/10W
R8408	1-216-033-00	RES-CHIP	220	5%	1/10W
R8409	1-216-295-91	SHORT	0		
R8410	1-216-295-91	SHORT	0		
R8411	1-216-083-00	RES-CHIP	27K	5%	1/10W
R8412	1-216-025-11	RES-CHIP	100	5%	1/10W
R8413	1-216-041-00	RES-CHIP	470	5%	1/10W
R8414	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W
R8417	1-216-025-11	RES-CHIP	100	5%	1/10W
R8418	1-216-025-11	RES-CHIP	100	5%	1/10W
R8419	1-216-017-91	RES-CHIP	47	5%	1/10W
R8420	1-216-017-91	RES-CHIP	47	5%	1/10W
R8421	1-216-295-91	SHORT	0		
R8422	1-216-295-91	SHORT	0		
R8424	1-216-083-00	RES-CHIP	27K	5%	1/10W
R8425	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8426	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W
R8427	1-216-295-91	SHORT	0		
R8428	1-216-295-91	SHORT	0		
R8431	1-216-295-91	SHORT	0		
R8432	1-216-295-91	SHORT	0		
R8436	1-216-017-91	RES-CHIP	47	5%	1/10W
R8437	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R8438	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R8439	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R8440	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R8441	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R8443	1-216-025-11	RES-CHIP	100	5%	1/10W
R8444	1-216-025-11	RES-CHIP	100	5%	1/10W
R8445	1-216-017-91	RES-CHIP	47	5%	1/10W
R8446	1-216-295-91	SHORT	0		
R8447	1-216-041-00	RES-CHIP	470	5%	1/10W
R8448	1-216-033-00	RES-CHIP	220	5%	1/10W
R8449	1-216-041-00	RES-CHIP	470	5%	1/10W
R8451	1-216-041-00	RES-CHIP	470	5%	1/10W
R8452	1-216-041-00	RES-CHIP	470	5%	1/10W
R8453	1-216-033-00	RES-CHIP	220	5%	1/10W
R8454	1-216-041-00	RES-CHIP	470	5%	1/10W
R8455	1-216-041-00	RES-CHIP	470	5%	1/10W
R8456	1-216-041-00	RES-CHIP	470	5%	1/10W
R8458	1-216-049-11	RES-CHIP	1K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R8461	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8464	1-216-041-00	RES-CHIP	470	5%	1/10W
R8465	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8466	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8467	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8468	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8469	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8470	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R8471	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R8472	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8473	1-216-025-11	RES-CHIP	100	5%	1/10W
R8478	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8479	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8480	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8481	1-216-095-00	RES-CHIP	82K	5%	1/10W
R8482	1-216-073-91	RES-CHIP	47K	5%	1/10W
R8484	1-216-045-00	RES-CHIP	680	5%	1/10W
R8485	1-216-013-00	RES-CHIP	33	5%	1/10W
R8487	1-216-045-00	RES-CHIP	680	5%	1/10W
R8488	1-216-041-00	RES-CHIP	470	5%	1/10W
R8490	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8494	1-216-295-91	SHORT	0		
R8496	1-216-025-11	RES-CHIP	100	5%	1/10W
R8502	1-216-295-91	SHORT	0		
R8503	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8504	1-216-025-11	RES-CHIP	100	5%	1/10W
R8510	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8514	1-216-295-91	SHORT	0		
R8515	1-216-295-91	SHORT	0		
R8519	1-216-025-11	RES-CHIP	100	5%	1/10W
R8523	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8525	1-216-025-11	RES-CHIP	100	5%	1/10W
R8526	1-216-037-00	RES-CHIP	330	5%	1/10W
R8529	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8530	1-216-025-11	RES-CHIP	100	5%	1/10W
R8531	1-216-295-91	SHORT	0		
R8535	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8536	1-216-025-11	RES-CHIP	100	5%	1/10W
R8537	1-216-025-11	RES-CHIP	100	5%	1/10W
R8539	1-216-025-11	RES-CHIP	100	5%	1/10W
R8542	1-216-041-00	RES-CHIP	470	5%	1/10W
R8543	1-216-039-00	RES-CHIP	390	5%	1/10W
R8544	1-216-041-00	RES-CHIP	470	5%	1/10W
R8545	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8546	1-216-295-91	SHORT	0		
R8547	1-216-295-91	SHORT	0		
R8548	1-216-025-11	RES-CHIP	100	5%	1/10W
R8552	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8554	1-216-025-11	RES-CHIP	100	5%	1/10W
R8555	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R8556	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8557	1-208-768-11	METAL CHIP	270	0.5%	1/10W
R8558	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8559	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8561	1-216-025-11	RES-CHIP	100	5%	1/10W
R8562	1-216-043-91	RES-CHIP	560	5%	1/10W
R8563	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8564	1-216-033-00	RES-CHIP	220	5%	1/10W
R8565	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8566	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8568	1-216-295-91	SHORT	0		
R8571	1-216-025-11	RES-CHIP	100	5%	1/10W
R8572	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8573	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R8574	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R8575	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8577	1-216-295-91	SHORT	0		
R8580	1-216-025-11	RES-CHIP	100	5%	1/10W
R8581	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8582	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R8583	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R8584	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8586	1-216-295-91	SHORT	0		
R8589	1-216-025-11	RES-CHIP	100	5%	1/10W
R8590	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8591	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R8592	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R8593	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8595	1-216-295-91	SHORT	0		
R8596	1-216-295-91	SHORT	0		
R8601	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8602	1-216-025-11	RES-CHIP	100	5%	1/10W
R8603	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8604	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8605	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8606	1-216-025-11	RES-CHIP	100	5%	1/10W
R8607	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8608	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8609	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8610	1-216-025-11	RES-CHIP	100	5%	1/10W
R8611	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8612	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8613	1-216-033-00	RES-CHIP	220	5%	1/10W
R8614	1-216-031-00	RES-CHIP	180	5%	1/10W
R8615	1-216-025-11	RES-CHIP	100	5%	1/10W
R8616	1-216-295-91	SHORT	0		
R8617	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8618	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8619	1-216-025-11	RES-CHIP	100	5%	1/10W
R8620	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8621	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8622	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8623	1-216-025-11	RES-CHIP	100	5%	1/10W
R8624	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8625	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8626	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8627	1-216-025-11	RES-CHIP	100	5%	1/10W
R8628	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8629	1-216-295-91	SHORT	0		
R8630	1-208-765-11	METAL CHIP	200	0.5%	1/10W
R8631	1-216-033-00	RES-CHIP	220	5%	1/10W
R8632	1-216-025-11	RES-CHIP	100	5%	1/10W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

J1 ZG

REF.NO.	PART NO.	DESCRIPTION			REMARK
R8633	1-216-025-11	RES-CHIP	100	5%	1/10W
R8634	1-216-025-11	RES-CHIP	100	5%	1/10W
R8801	1-216-017-91	RES-CHIP	47	5%	1/10W
R8803	1-216-075-00	RES-CHIP	12K	5%	1/10W
R8804	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R8805	1-216-037-00	RES-CHIP	330	5%	1/10W
R8806	1-216-041-00	RES-CHIP	470	5%	1/10W
R8807	1-216-033-00	RES-CHIP	220	5%	1/10W
R8808	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R8809	1-216-037-00	RES-CHIP	330	5%	1/10W
R8810	1-216-043-91	RES-CHIP	560	5%	1/10W
R8811	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8812	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R8813	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8814	1-216-017-91	RES-CHIP	47	5%	1/10W
R8815	1-216-295-91	SHORT	0		
R8816	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R8819	1-216-295-91	SHORT	0		
R8820	1-208-770-11	METAL CHIP	330	0.5%	1/10W
R8821	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R8822	1-208-770-11	METAL CHIP	330	0.5%	1/10W
R8823	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8824	1-208-793-11	METAL CHIP	3K	0.5%	1/10W
R8825	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8826	1-216-047-91	RES-CHIP	820	5%	1/10W
R8827	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
R8828	1-216-047-91	RES-CHIP	820	5%	1/10W
R8829	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R8830	1-216-295-91	SHORT	0		
R8832	1-216-295-91	SHORT	0		
R8834	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R8835	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8838	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R8840	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8841	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8844	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8847	1-216-295-91	SHORT	0		
R8848	1-216-295-91	SHORT	0		
R8849	1-216-035-00	RES-CHIP	270	5%	1/10W
R8851	1-216-041-00	RES-CHIP	470	5%	1/10W
R8852	1-216-041-00	RES-CHIP	470	5%	1/10W
R8853	1-216-093-91	RES-CHIP	68K	5%	1/10W
R8854	1-216-083-00	RES-CHIP	27K	5%	1/10W
R8855	1-216-043-91	RES-CHIP	560	5%	1/10W
R8856	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8857	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
		<TERMINAL>			
TB8101	1-537-712-11	TERMINAL, PUSH (CENTER SP IN)			
		<CRYSTAL>			
X8301	1-781-612-11	VIBRATOR, CRYSTAL (16.2MHz)			
X8302	1-781-612-11	VIBRATOR, CRYSTAL (16.2MHz)			

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REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1391-026-A	ZG BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C7601	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C7602	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C7603	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C7604	1-126-947-11	ELECT	47UF	20.00%	16V
C7605	1-104-989-91	MYLAR	0.0022UF	10.00%	200V
C7606	1-104-989-91	MYLAR	0.0022UF	10.00%	200V
C7607	1-107-667-11	ELECT	2.2UF	20.00%	160V
C7608	1-130-471-00	MYLAR	0.001UF	5.00%	50V
C7609	1-130-471-00	MYLAR	0.001UF	5.00%	50V
C7610	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C7611	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C7612	1-107-364-11	MYLAR	0.01UF	10.00%	200V
C7613	1-126-968-11	ELECT	100UF	20.00%	50V
C7614	1-126-968-11	ELECT	100UF	20.00%	50V
C7615	1-107-645-11	ELECT	22UF	20.00%	200V
C7616	1-161-830-00	CERAMIC	0.0047UF		500V
C7617	1-106-220-00	MYLAR	0.1UF	10.00%	100V
C7618	1-106-220-00	MYLAR	0.1UF	10.00%	100V
C7620	1-126-935-11	ELECT	470UF	20.00%	6.3V
C7621	1-126-960-11	ELECT	1UF	20.00%	50V
		<CONNECTOR>			
CN7601 *	1-564-509-11	PLUG, CONNECTOR 6P			
CN7602 *	1-564-509-11	PLUG, CONNECTOR 6P			
CN7603 *	1-564-507-11	PLUG, CONNECTOR 4P			
CN7604 *	1-564-506-11	PLUG, CONNECTOR 3P			
CN7605 *	1-564-506-11	PLUG, CONNECTOR 3P			
CN7606 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P			
CN7607 *	1-564-506-11	PLUG, CONNECTOR 3P			
CN7608 *	1-564-507-11	PLUG, CONNECTOR 4P			
CN7609	1-695-915-11	TAB (CONTACT)			
		<DIODE>			
D7601	8-719-110-36	DIODE RD13ES-B2			
D7602	8-719-110-36	DIODE RD13ES-B2			
D7603	8-719-988-61	DIODE 1SS355TE-17			
D7604	1-535-303-00	LEAD, JUMPER (5.0MM)			
		<DY>			
DY7601⚠	1-451-476-21	DY			
		<COIL>			
L7601	1-412-911-11	FERRITE	0UH		
L7602	1-414-187-11	INDUCTOR	47UH		

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ZG ZR

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<TRANSISTOR>			
Q7601	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7602	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q7603	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q7604	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7605	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7606	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7607	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7608	8-729-045-04	TRANSISTOR 2SC5511			
Q7609	8-729-045-05	TRANSISTOR 2SA2005			
Q7610	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
		<RESISTOR>			
R7601	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R7602	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R7603	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R7604	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R7605	1-216-475-11	METAL OXIDE	120	5%	3W
R7606	1-216-033-00	RES-CHIP	220	5%	1/10W
R7607	1-216-033-00	RES-CHIP	220	5%	1/10W
R7608	1-249-393-11	CARBON	10	5%	1/4W
R7609	1-216-001-00	RES-CHIP	10	5%	1/10W
R7610	1-249-385-11	CARBON	2.2	5%	1/4W
R7611	1-216-475-11	METAL OXIDE	120	5%	3W
R7612	1-249-414-11	CARBON	560	5%	1/4W
R7613	1-216-073-91	RES-CHIP	10K	5%	1/10W
R7614	1-249-414-11	CARBON	560	5%	1/4W
R7615	1-249-415-11	CARBON	680	5%	1/4W
R7616	1-249-433-11	CARBON	22K	5%	1/4W
R7617	1-249-433-11	CARBON	22K	5%	1/4W
R7618	1-249-415-11	CARBON	680	5%	1/4W
R7619	1-216-009-91	RES-CHIP	22	5%	1/10W
R7620	1-216-009-91	RES-CHIP	22	5%	1/10W
R7621	1-249-417-11	CARBON	1K	5%	1/4W
R7622	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7623	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7624	1-249-405-11	CARBON	100	5%	1/4W
R7625	1-249-385-11	CARBON	2.2	5%	1/4W
R7626	1-249-385-11	CARBON	2.2	5%	1/4W
R7627	1-249-405-11	CARBON	100	5%	1/4W
R7628	1-215-913-11	METAL OXIDE	220	5%	3W
R7631	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7632	1-216-025-11	RES-CHIP	100	5%	1/10W
R7633	1-216-009-91	RES-CHIP	22	5%	1/10W
R7634	1-216-295-91	SHORT	0		

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* A-1391-025-A ZR BOARD, COMPLETE
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4-382-854-11 SCREW (M3X10), P, SW (+)

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<CAPACITOR>			
C7401	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C7402	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C7403	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C7404	1-126-947-11	ELECT	47UF	20.00%	16V
C7405	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C7406	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C7407	1-104-989-91	MYLAR	0.0022UF	10.00%	200V
C7408	1-104-989-91	MYLAR	0.0022UF	10.00%	200V
C7409	1-107-667-11	ELECT	2.2UF	20.00%	160V
C7410	1-130-471-00	MYLAR	0.001UF	5.00%	50V
C7411	1-130-471-00	MYLAR	0.001UF	5.00%	50V
C7412	1-107-364-11	MYLAR	0.01UF	10.00%	200V
C7413	1-126-968-11	ELECT	100UF	20.00%	50V
C7414	1-126-968-11	ELECT	100UF	20.00%	50V
C7415	1-107-645-11	ELECT	22UF	20.00%	200V
C7416	1-161-830-00	CERAMIC	0.0047UF		500V
C7418	1-126-935-11	ELECT	470UF	20.00%	6.3V
		<CONNECTOR>			
CN7401 *	1-564-509-11	PLUG, CONNECTOR 6P			
CN7403 *	1-564-518-11	PLUG, CONNECTOR 3P			
CN7404 *	1-564-507-11	PLUG, CONNECTOR 4P			
CN7405 *	1-580-844-11	PIN, CONNECTOR (POWER)			
		<DIODE>			
D7401	8-719-988-61	DIODE 1SS355TE-17			
D7403	8-719-110-36	DIODE RD13ES-B2			
D7404	8-719-110-36	DIODE RD13ES-B2			
D7405	1-535-303-00	LEAD, JUMPER (5.0MM)			
		<DY>			
DY7401 ⚠	1-451-476-21	DY			
		<COIL>			
L7401	1-412-911-11	FERRITE	0UH		
L7402	1-414-187-11	INDUCTOR	47UH		
		<TRANSISTOR>			
Q7401	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7402	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7403	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7404	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7405	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7406	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q7407	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q7408	8-729-045-04	TRANSISTOR 2SC5511			
Q7409	8-729-045-05	TRANSISTOR 2SA2005			
Q7410	8-729-120-28	TRANSISTOR 2SC1623-L5L6			

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ZR ZB

REF.NO.	PART NO.	DESCRIPTION			REMARK
	<RESISTOR>				
R7401	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R7402	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R7403	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R7404	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R7405	1-216-475-11	METAL OXIDE	120	5%	3W
R7406	1-216-073-91	RES-CHIP	10K	5%	1/10W
R7407	1-249-385-11	CARBON	2.2	5%	1/4W
R7408	1-216-475-11	METAL OXIDE	120	5%	3W
R7409	1-216-009-91	RES-CHIP	22	5%	1/10W
R7410	1-216-009-91	RES-CHIP	22	5%	1/10W
R7411	1-249-414-11	CARBON	560	5%	1/4W
R7412	1-216-033-00	RES-CHIP	220	5%	1/10W
R7413	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7414	1-216-033-00	RES-CHIP	220	5%	1/10W
R7415	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7416	1-216-001-00	RES-CHIP	10	5%	1/10W
R7417	1-249-414-11	CARBON	560	5%	1/4W
R7418	1-216-001-00	RES-CHIP	10	5%	1/10W
R7419	1-249-415-11	CARBON	680	5%	1/4W
R7420	1-249-433-11	CARBON	22K	5%	1/4W
R7421	1-249-433-11	CARBON	22K	5%	1/4W
R7422	1-249-415-11	CARBON	680	5%	1/4W
R7423	1-249-417-11	CARBON	1K	5%	1/4W
R7424	1-249-405-11	CARBON	100	5%	1/4W
R7425	1-249-385-11	CARBON	2.2	5%	1/4W
R7426	1-249-385-11	CARBON	2.2	5%	1/4W
R7427	1-249-405-11	CARBON	100	5%	1/4W
R7428	1-215-913-11	METAL OXIDE	220	5%	3W
R7431	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7432	1-216-025-11	RES-CHIP	100	5%	1/10W
R7433	1-216-009-91	RES-CHIP	22	5%	1/10W
R7434	1-216-295-91	SHORT	0		

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* A-1391-027-A ZB BOARD, COMPLETE
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4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

C7801	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C7802	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C7803	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C7804	1-126-947-11	ELECT	47UF	20.00%	16V
C7805	1-104-989-91	MYLAR	0.0022UF	10.00%	200V
C7806	1-104-989-91	MYLAR	0.0022UF	10.00%	200V
C7807	1-107-667-11	ELECT	2.2UF	20.00%	160V
C7808	1-130-471-00	MYLAR	0.001UF	5.00%	50V
C7809	1-130-471-00	MYLAR	0.001UF	5.00%	50V
C7810	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C7811	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C7812	1-107-364-11	MYLAR	0.01UF	10.00%	200V
C7813	1-126-968-11	ELECT	100UF	20.00%	50V
C7814	1-126-968-11	ELECT	100UF	20.00%	50V
C7815	1-107-645-11	ELECT	22UF	20.00%	200V
C7816	1-161-830-00	CERAMIC	0.0047UF		500V
C7818	1-126-935-11	ELECT	470UF	20.00%	6.3V

<CONNECTOR>

CN7801 *	1-564-509-11	PLUG, CONNECTOR 6P	
CN7802 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN7803 *	1-564-506-11	PLUG, CONNECTOR 3P	
CN7804 *	1-580-844-11	PIN, CONNECTOR (POWER)	
CN7805 *	1-564-506-11	PLUG, CONNECTOR 3P	

<DIODE>

D7801	8-719-110-36	DIODE RD13ES-B2
D7802	8-719-110-36	DIODE RD13ES-B2
D7803	8-719-988-61	DIODE 1SS355TE-17
D7804	1-535-303-00	LEAD, JUMPER (5.0MM)

<DY>

DY7801⚠	1-451-476-21	DYJ7101

<COIL>

L7801	1-412-911-11	FERRITE	0UH
L7802	1-414-187-11	INDUCTOR	47UH

<TRANSISTOR>

Q7801	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q7802	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q7803	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA
Q7804	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R
Q7805	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q7806	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R
Q7807	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q7808	8-729-045-04	TRANSISTOR 2SC5511
Q7809	8-729-045-05	TRANSISTOR 2SA2005
Q7810	8-729-120-28	TRANSISTOR 2SC1623-L5L6

<RESISTOR>

R7801	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R7802	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R7803	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R7804	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R7805	1-216-033-00	RES-CHIP	220	5%	1/10W
R7806	1-216-033-00	RES-CHIP	220	5%	1/10W
R7807	1-216-475-11	METAL OXIDE	120	5%	3W
R7808	1-216-001-00	RES-CHIP	10	5%	1/10W
R7809	1-216-001-00	RES-CHIP	10	5%	1/10W
R7810	1-249-385-11	CARBON	2.2	5%	1/4W
R7811	1-216-475-11	METAL OXIDE	120	5%	3W
R7812	1-216-073-91	RES-CHIP	10K	5%	1/10W
R7813	1-249-414-11	CARBON	560	5%	1/4W
R7814	1-216-009-91	RES-CHIP	22	5%	1/10W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ZB CR

REF.NO.	PART NO.	DESCRIPTION			REMARK
R7815	1-216-009-91	RES-CHIP	22	5%	1/10W
R7816	1-249-414-11	CARBON	560	5%	1/4W
R7817	1-249-415-11	CARBON	680	5%	1/4W
R7818	1-249-433-11	CARBON	22K	5%	1/4W
R7819	1-249-433-11	CARBON	22K	5%	1/4W
R7820	1-249-415-11	CARBON	680	5%	1/4W
R7821	1-249-417-11	CARBON	1K	5%	1/4W
R7822	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7823	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7824	1-249-405-11	CARBON	100	5%	1/4W
R7825	1-249-385-11	CARBON	2.2	5%	1/4W
R7826	1-249-385-11	CARBON	2.2	5%	1/4W
R7827	1-249-405-11	CARBON	100	5%	1/4W
R7828	1-215-913-11	METAL OXIDE	220	5%	3W
R7831	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7832	1-216-025-11	RES-CHIP	100	5%	1/10W
R7833	1-216-009-91	RES-CHIP	22	5%	1/10W
R7834	1-216-295-91	SHORT	0		

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* A-1332-037-A CR BOARD, COMPLETE
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4-382-854-01 SCREW (M3X8), P, SW (+)

<CAPACITOR>

C7102	1-162-115-00	CERAMIC	330PF	10.00%	2KV
C7103	1-107-652-11	ELECT	10UF	20.00%	250V
C7104	1-126-768-11	ELECT	2200UF	20.00%	16V
C7105	1-162-115-00	CERAMIC	330PF	10.00%	2KV
C7106	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C7107	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C7108	1-126-967-11	ELECT	47UF	20.00%	50V
C7110	1-102-050-00	CERAMIC	0.01UF	99%	500V
C7111	1-161-830-00	CERAMIC	0.0047UF		500V
C7112	1-163-224-11	CERAMIC CHIP	7PF	0.25PF	50V
C7116	1-107-957-11	ELECT	1UF	20.00%	250V
C7118	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V

<CONNECTOR>

CN7101 *	1-564-512-11	PLUG, CONNECTOR 9P
CN7102 *	1-564-510-11	PLUG, CONNECTOR 7P
CN7103 *	1-564-512-11	PLUG, CONNECTOR 9P
CN7104	1-785-879-11	CONNECTOR, ONE TOUCH
CN7107	1-695-915-11	TAB (CONTACT)

<DIODE>

D7102	8-719-110-36	DIODE RD13ES-B2
D7103	8-719-901-83	DIODE 1SS83
D7104	8-719-901-83	DIODE 1SS83
D7105	8-719-901-83	DIODE 1SS83
D7106	8-719-901-83	DIODE 1SS83
D7108	8-719-988-61	DIODE 1SS355TE-17
D7109	8-719-110-36	DIODE RD13ES-B2
D7110	8-719-110-36	DIODE RD13ES-B2

<IC>

IC7101	8-759-360-83	IC TDA6111Q/N4

<JACK>

J7101	⚠1-251-182-41	SOCKET, CRT

<COIL>

L7102	1-414-223-11	INDUCTOR	470UH
L7103	1-414-181-11	INDUCTOR	4.7UH
L7104	1-414-187-11	INDUCTOR	47UH

<NEON LAMP>

NL7101	1-576-354-21	GAP, SPARK
NL7102	1-517-729-31	GAP, SPARK
NL7103	1-576-354-21	GAP, SPARK
NL7104	1-576-354-21	GAP, SPARK
NL7105	1-576-354-21	GAP, SPARK

<TRANSISTOR>

Q7101	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R
Q7103	8-729-255-12	TRANSISTOR 2SC2551-O
Q7104	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R

<RESISTOR>

R7101	1-260-132-11	CARBON	560K	5%	1/2W
R7102	1-249-389-11	CARBON	4.7	5%	1/4W
R7103	1-216-295-91	SHORT	0		
R7105	1-260-117-11	CARBON	33K	5%	1/2W
R7106	1-219-743-11	CARBON	100	5%	1/2W
R7107	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W
R7108	1-260-133-11	CARBON	680K	5%	1/2W
R7109	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R7110	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R7111	1-216-033-00	RES-CHIP	220	5%	1/10W
R7112	1-249-424-11	CARBON	3.9K	5%	1/4W
R7113	1-216-295-91	SHORT	0		
R7114	1-216-660-11	METAL CHIP	2.4K	0.5%	1/10W
R7115	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R7116	1-215-929-11	METAL OXIDE	100K	5%	3W
R7117	1-260-093-11	CARBON	330	5%	1/2W
R7118	1-260-087-11	CARBON	100	5%	1/2W
R7119	1-260-328-11	CARBON	1K	5%	1/2W
R7120	1-216-081-00	RES-CHIP	22K	5%	1/10W
R7122	1-216-025-11	RES-CHIP	100	5%	1/10W
R7123	1-216-295-91	SHORT	0		
R7124	1-216-073-91	RES-CHIP	10K	5%	1/10W
R7128	1-208-818-11	METAL CHIP	33K	0.5%	1/10W
R7129	1-249-417-11	CARBON	1K	5%	1/4W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

CR CG

REF.NO.	PART NO.	DESCRIPTION			REMARK
R7130	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R7131	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7132	1-216-295-91	SHORT	0		
R7133	1-208-834-11	METAL CHIP	150K	0.5%	1/10W
R7134	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7135	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
		<SPARK GAP>			
SG7101	1-519-422-11	GAP, SPARK			
SG7103	1-519-422-11	GAP, SPARK			
		<TEST PIN>			
TP7102 *	1-535-881-21	TERMINAL, TP (AUTO INSERTION)			
TP7105 *	1-535-881-21	TERMINAL, TP (AUTO INSERTION)			
**********					
*	A-1332-038-A	CG BOARD, COMPLETE			
		**********			
	4-382-854-01	SCREW (M3X8), P, SW (+)			
		<CAPACITOR>			
C7202	1-162-115-00	CERAMIC	330PF	10.00%	2KV
C7203	1-126-768-11	ELECT	2200UF	20.00%	16V
C7204	1-107-652-11	ELECT	10UF	20.00%	250V
C7205	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C7206	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C7207	1-162-115-00	CERAMIC	330PF	10.00%	2KV
C7208	1-126-967-11	ELECT	47UF	20.00%	50V
C7209	1-102-050-00	CERAMIC	0.01UF	99%	500V
C7211	1-161-830-00	CERAMIC	0.0047UF		500V
C7212	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V
C7213	1-163-085-00	CERAMIC CHIP	2PF	0.25PF	50V
C7214	1-126-964-11	ELECT	10UF	20.00%	50V
C7216	1-107-957-11	ELECT	1UF	20.00%	250V
		<CONNECTOR>			
CN7201 *	1-564-510-11	PLUG, CONNECTOR 7P			
CN7202 *	1-564-509-11	PLUG, CONNECTOR 6P			
CN7203 *	1-564-512-11	PLUG, CONNECTOR 9P			
CN7204 *	1-564-512-11	PLUG, CONNECTOR 9P			
CN7205	1-785-879-11	CONNECTOR, ONE TOUCH			
CN7208	1-695-915-11	TAB (CONTACT)			
		<DIODE>			
D7202	8-719-110-36	DIODE RD13ES-B2			
D7203	8-719-901-83	DIODE 1SS83			
D7204	8-719-901-83	DIODE 1SS83			
D7205	8-719-901-83	DIODE 1SS83			
D7206	8-719-901-83	DIODE 1SS83			
D7208	8-719-988-61	DIODE 1SS355TE-17			
		<IC>			
IC7201	8-759-360-83	IC TDA6111Q/N4			
		<JACK>			
J7201	⚠1-251-182-41	SOCKET, CRT			
		<COIL>			
L7201	1-414-223-11	INDUCTOR	470UH		
L7203	1-414-181-11	INDUCTOR	4.7UH		
L7204	1-414-187-11	INDUCTOR	47UH		
		<NEON LAMP>			
NL7201	1-576-354-21	GAP, SPARK			
NL7202	1-576-354-21	GAP, SPARK			
NL7203	1-517-729-31	GAP, SPARK			
NL7204	1-576-354-21	GAP, SPARK			
NL7205	1-576-354-21	GAP, SPARK			
		<TRANSISTOR>			
Q7201	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7202	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7203	8-729-255-12	TRANSISTOR 2SC2551-O			
		<RESISTOR>			
R7201	1-260-132-11	CARBON	560K	5%	1/2W
R7202	1-216-295-91	SHORT	0		
R7203	1-208-846-11	METAL CHIP	470K	0.5%	1/10W
R7204	1-219-743-11	CARBON	100	5%	1/2W
R7205	1-260-117-11	CARBON	33K	5%	1/2W
R7206	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W
R7207	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R7208	1-216-033-00	RES-CHIP	220	5%	1/10W
R7209	1-260-133-11	CARBON	680K	5%	1/2W
R7210	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R7211	1-249-424-11	CARBON	3.9K	5%	1/4W
R7212	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
R7213	1-215-929-11	METAL OXIDE	100K	5%	3W
R7214	1-216-295-91	SHORT	0		
R7215	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R7216	1-260-093-11	CARBON	330	5%	1/2W
R7217	1-216-295-91	SHORT	0		
R7218	1-260-328-11	CARBON	1K	5%	1/2W
R7219	1-216-295-91	SHORT	0		
R7220	1-216-025-11	RES-CHIP	100	5%	1/10W
R7222	1-216-295-91	SHORT	0		
R7223	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R7224	1-208-799-11	METAL CHIP	5.1K	0.5%	1/10W
R7225	1-216-081-00	RES-CHIP	22K	5%	1/10W
R7229	1-249-417-11	CARBON	1K	5%	1/4W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

CG CB

REF.NO.	PART NO.	DESCRIPTION			REMARK
R7235	1-216-053-00	RES-CHIP	1.5K	5% 1/10W	
		<SPARK GAP>			
SG7201	1-519-422-11	GAP, SPARK			
SG7203	1-519-422-11	GAP, SPARK			
		<TEST PIN>			
TP7202	* 1-535-881-21	TERMINAL, TP (AUTO INSERTION)			
TP7205	* 1-535-881-21	TERMINAL, TP (AUTO INSERTION)			
**********					
	* A-1332-039-A	CB BOARD, COMPLETE			
		**********			
	4-382-854-01	SCREW (M3X8), P, SW (+)			
		<CAPACITOR>			
C7302	1-162-115-00	CERAMIC	330PF	10.00% 2KV	
C7303	1-162-115-00	CERAMIC	330PF	10.00% 2KV	
C7304	1-126-768-11	ELECT	2200UF	20.00% 16V	
C7305	1-163-038-91	CERAMIC CHIP	0.1UF	25V	
C7306	1-163-038-91	CERAMIC CHIP	0.1UF	25V	
C7307	1-107-652-11	ELECT	10UF	20.00% 250V	
C7308	1-126-967-11	ELECT	47UF	20.00% 50V	
C7309	1-163-085-00	CERAMIC CHIP	2PF	0.25PF 50V	
C7311	1-102-050-00	CERAMIC	0.01UF	99% 500V	
C7312	1-161-830-00	CERAMIC	0.0047UF	500V	
C7313	1-163-091-00	CERAMIC CHIP	8PF	0.25PF 50V	
C7314	1-126-964-11	ELECT	10UF	20.00% 50V	
C7315	1-126-960-11	ELECT	1UF	20.00% 50V	
C7318	1-107-957-11	ELECT	1UF	20.00% 250V	
		<CONNECTOR>			
CN7301	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN7302	* 1-564-512-11	PLUG, CONNECTOR 9P			
CN7303	* 1-564-512-11	PLUG, CONNECTOR 9P			
CN7304	1-785-879-11	CONNECTOR, ONE TOUCH			
CN7307	1-695-915-11	TAB (CONTACT)			
		<DIODE>			
D7302	8-719-110-36	DIODE RD13ES-B2			
D7303	8-719-901-83	DIODE 1SS83			
D7304	8-719-901-83	DIODE 1SS83			
D7305	8-719-901-83	DIODE 1SS83			
D7306	8-719-901-83	DIODE 1SS83			
D7307	8-719-988-61	DIODE 1SS355TE-17			
D7308	8-719-110-36	DIODE RD13ES-B2			
D7309	8-719-988-61	DIODE 1SS355TE-17			
D7311	8-719-110-36	DIODE RD13ES-B2			
D7312	8-719-110-36	DIODE RD13ES-B2			

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<IC>			
IC7301	8-759-360-83	IC TDA6111Q/N4			
		<JACK>			
J7301	⚠1-251-182-41	SOCKET, CRT			
		<COIL>			
L7301	1-414-223-11	INDUCTOR	470UH		
L7303	1-414-181-11	INDUCTOR	4.7UH		
L7304	1-414-187-11	INDUCTOR	47UH		
		<NEON LAMP>			
NL7301	1-576-354-21	GAP, SPARK			
NL7302	1-517-729-31	GAP, SPARK			
NL7303	1-576-354-21	GAP, SPARK			
NL7304	1-576-354-21	GAP, SPARK			
NL7305	1-576-354-21	GAP, SPARK			
		<TRANSISTOR>			
Q7301	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7302	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7303	8-729-255-12	TRANSISTOR 2SC2551-O			
Q7305	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7306	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
		<RESISTOR>			
R7301	1-219-743-11	CARBON	100	5% 1/2W	
R7302	1-260-132-11	CARBON	560K	5% 1/2W	
R7304	1-216-295-91	SHORT	0		
R7306	1-260-328-11	CARBON	1K	5% 1/2W	
R7307	1-208-801-11	METAL CHIP	6.2K	0.5% 1/10W	
R7308	1-260-133-11	CARBON	680K	5% 1/2W	
R7309	1-208-790-11	METAL CHIP	2.2K	0.5% 1/10W	
R7310	1-216-295-91	SHORT	0		
R7311	1-208-808-11	METAL CHIP	12K	0.5% 1/10W	
R7312	1-216-660-11	METAL CHIP	2.4K	0.5% 1/10W	
R7313	1-216-033-00	RES-CHIP	220	5% 1/10W	
R7314	1-249-424-11	CARBON	3.9K	5% 1/4W	
R7315	1-216-295-91	SHORT	0		
R7316	1-215-929-11	METAL OXIDE	100K	5% 3W	
R7317	1-260-093-11	CARBON	330	5% 1/2W	
R7318	1-216-295-91	SHORT	0		
R7319	1-208-798-11	METAL CHIP	4.7K	0.5% 1/10W	
R7320	1-260-087-11	CARBON	100	5% 1/2W	
R7321	1-260-117-11	CARBON	33K	5% 1/2W	
R7322	1-208-782-11	METAL CHIP	1K	0.5% 1/10W	
R7323	1-216-025-11	RES-CHIP	100	5% 1/10W	
R7324	1-216-295-91	SHORT	0		
R7326	1-208-803-11	METAL CHIP	7.5K	0.5% 1/10W	
R7327	1-208-798-11	METAL CHIP	4.7K	0.5% 1/10W	
R7328	1-216-073-91	RES-CHIP	10K	5% 1/10W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
R7329	1-216-091-00	RES-CHIP	56K	5%	1/10W
R7330	1-216-081-00	RES-CHIP	22K	5%	1/10W
R7331	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R7332	1-216-081-00	RES-CHIP	22K	5%	1/10W
R7335	1-249-417-11	CARBON	1K	5%	1/4W
R7336	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
		<SPARK GAP>			
SG7301	1-519-422-11	GAP, SPARK			
SG7303	1-519-422-11	GAP, SPARK			
		<TEST PIN>			
TP7302	*1-535-881-21	TERMINAL, TP (AUTO INSERTION)			
TP7304	*1-535-881-21	TERMINAL, TP (AUTO INSERTION)			

****

MISCELLANEOUS
****

⚠1-223-925-71 RESISTOR ASSY (HIGH-VOLTAGE) (FOCUS PACK)
⚠1-452-790-41 NECK ASSY (NA-295)
1-528-864-11 BATTERY, SOLAR
1-529-403-21 SPEAKER (6.6 CM) (KP-ER53)
1-544-849-11 SPEAKER (13 CM) (KP-ER53)

1-544-888-11 SPEAKER (10 CM) (KP-ER53)
1-543-982-11 CORE, FERRITE
1-790-082-11 CABLE, RF
⚠1-574-062-52 CORD, POWER (WITH CONNECTOR) (ER43M61/M91, ER53M61/M91)
⚠1-792-002-11 CORD, POWER (WITH FILTER) (ER43M90, ER53M90)

⚠1-792-035-11 CORD, POWER (WITH FILTER) (ER43M31, ER53M31)
⚠8-598-955-13 BLOCK ASSY, HV HVB-1030
⚠8-733-570-35 PICTURE TUBE 07MXC2 (G) (NEW GUN)
⚠8-733-571-35 PICTURE TUBE 07MXC2 (R) (NEWGUN) (KP-ER43)
⚠8-733-572-35 PICTURE TUBE 07MXC3 (R)(NEWGUN) (KP-ER53)

⚠8-733-574-15 PICTURE TUBE 07MAC2 (B) (C/D CPL) (KP-ER43)
⚠8-733-575-15 PICTURE TUBE 07MAC3 (B) (C/D CPL) (KP-ER53)

****

ACCESSORIES AND PACKING MATERIALS
****

*4-029-168-01 BAG, PROTECTION (KP-ER43)
*4-041-423-11 SHEET, PROTECTION (KP-ER43)
*4-055-672-01 BAG, PROTECTION (KP-ER53)
*4-055-673-01 SHEET, PROTECTION (KP-ER53)
*4-070-116-01 BOARD, TOP (KP-ER43)
*4-077-593-01 TRAY(KP-ER43)
*4-084-838-01 BOARD, TOP (KP-ER53)
*4-084-839-01 BOARD, BOTTOM (KP-ER53)
*4-084-837-01 TRAY(KP-ER53)
*4-077-595-01 CUSHION (UPPER) (ASSY) (KP-ER43)

*4-083-334-01 CUSHION (LOWER) (ASSY) (KP-ER43)
*4-087-625-01 INDIVIDUAL CARTON (KP-ER43)
*4-084-840-01 CUSHION (UPPER) (ASSY) (KP-ER53)
*4-084-841-01 CUSHION (LOWER) (ASSY) (KP-ER53)
4-087-601-11 MANUAL, INSTRUCTION

*4-087-648-01 INDIVIDUAL CARTON (KP-ER53)
*
****

REMOTE COMMANDER
****

1-476-170-11 REMOTE COMMANDER (RM-961)
4-978-977-01 COVER, BATTERY (for RM-961)

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SONY

4-087-601-**21** (1)

SONY

Color Rear Projection TV KP-ER53/43

Projection TV

Operating Instructions — GB

- Before operating the unit, please read this manual thoroughly and retain it for future reference.

Mode d'emploi — FR

- Avant de faire fonctionner cet appareil, lisez attentivement le présent mode d'emploi et conservez-le pour toute référence ultérieure.

使用說明書 — CT

- 使用本電視機之前請先詳細閱讀此手冊，並妥善保存以備日後用作參考。

使用说明书 — CS

- 使用本电视机之前请先详细阅读此手册，并妥善保存以备日后用作参考。

دفترچه راهنما — PR

- قبل از تنظیم کردن دستگاه، لطفا دفترچه راهنما را با دقت بخوانید و به منظور مراجعه بعدی ان رانگه دارید.

تعليمات التشغيل — AR

- قبل تشغيل الجهاز، نرجى قراءة هذا الدليل بصورة كاملة والاحتفاظ به للمراجعة مستقبلا.

KP-ER53
KP-ER43

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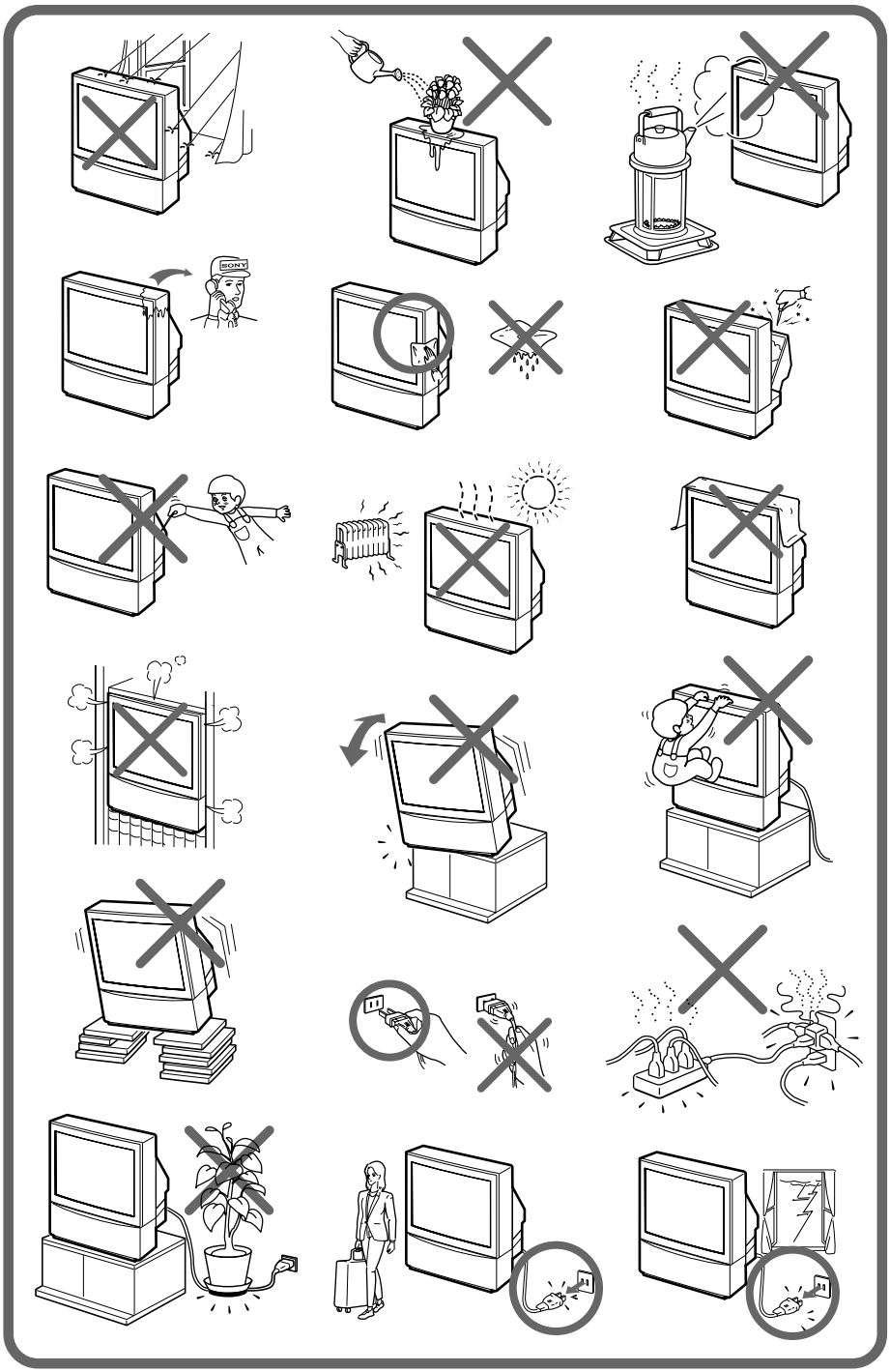
M90, M91, M61, M31



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The features you will enjoy include:

- "DRC-MF" for viewing higher quality pictures (page 18)
- "FAVORITE CH" for quick and easy program selection (page 19)
- "PIP" & "TWIN" for viewing two programs (page 20)
- "PROGRAM INDEX" for displaying multiple programs (page 22)
- "PICTURE MODE"/"SOUND MODE" for customizing your projection TV (page 17)
- "WIDE MODE" to view 16:9 pictures (page 39)

Your projection TV also offers the following features:

- Digital Quick Focus function for automatic convergence adjustment (page 7)
- Menu language options — English/Chinese/Arabic (page 15)
- "CHILD LOCK" for locking out specific channels (page 41)
- "INTELLIGENT VOL" for automatic volume adjustment (page 40)
- "FINE" tuning feature (page 45)
- Button Joystick on the remote control for easier operation (page 15)
- "ECO MODE" to save energy (page 39)
- "GAME MODE" for video games (page 39)

WARNING

To prevent fire or shock hazard, do not expose the projection TV to rain or moisture. Dangerously high voltages are present inside the projection TV. Do not open the cabinet. Refer servicing to qualified personnel only.

For general safety:

- Do not expose the projection TV to rain or moisture.
- Do not open the rear cover.

For safe installation:

- Do not block the ventilation openings.
- Do not install the projection TV in hot, humid or excessively dusty places.
- Do not install the projection TV where it may be exposed to mechanical vibrations.
- Avoid operating the projection TV at temperatures below 5°C (41°F).
- If the projection TV is transported directly from a cold to a warm location, or if the room temperature has changed suddenly, the picture may be blurred or show poor color. This is because moisture has condensed on the mirror or lenses inside. If this happens, let the moisture evaporate before using the projection TV.
- To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the projection TV in a room where the floor and walls are not of reflecting material. If necessary, cover them with dark carpeting or wall paper.
- Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

For safe operations:

- Do not operate the projection TV on anything but 110–240/220-240 V AC, 50/60 Hz.
- Do not operate the projection TV if any liquid or solid object falls in it—have it checked immediately.
- Do not keep the projection TV plugged in if you are not going to use it for several days.
- Do not pull the power cord to disconnect the projection TV. Pull it out by the plug.

Caution

- When using TV games, computers, and similar products with your projection TV, keep the brightness and contrast functions at low settings. If a fixed (non-moving) pattern is left on the screen for long periods of time at a high brightness or contrast setting, the image can be permanently imprinted onto the screen. These types of imprints are not covered by your warranty because they are the result of misuse.

Cleaning the Screen

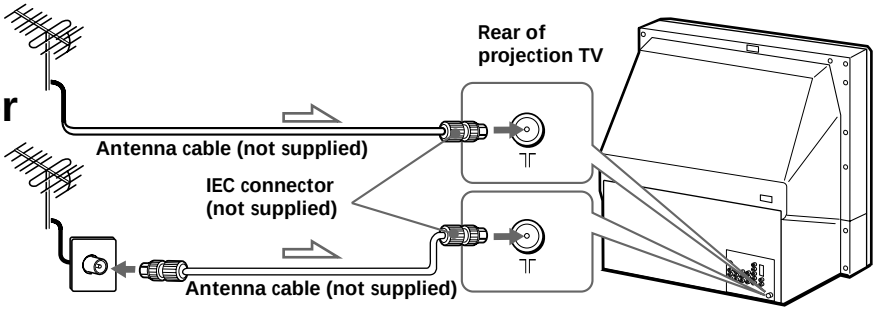
- To clean the screen with a cloth, please use a soft cloth lightly moistened with a mild detergent solution or water. Do not use any type of abrasive pad, alkaline cleaner, scouring powder or solvent, such as alcohol or benzine. As a safety precaution, unplug the TV before cleaning it.
- Do not rub, touch, or tap the surface of the screen with sharp or abrasive items, like a ball point pen or a screw driver. Otherwise, this type or contact may result in a scratched screen.

Getting Started

Step 1

Connect the antenna

If you wish to connect a VCR, see the "Connecting a VCR" diagram below.



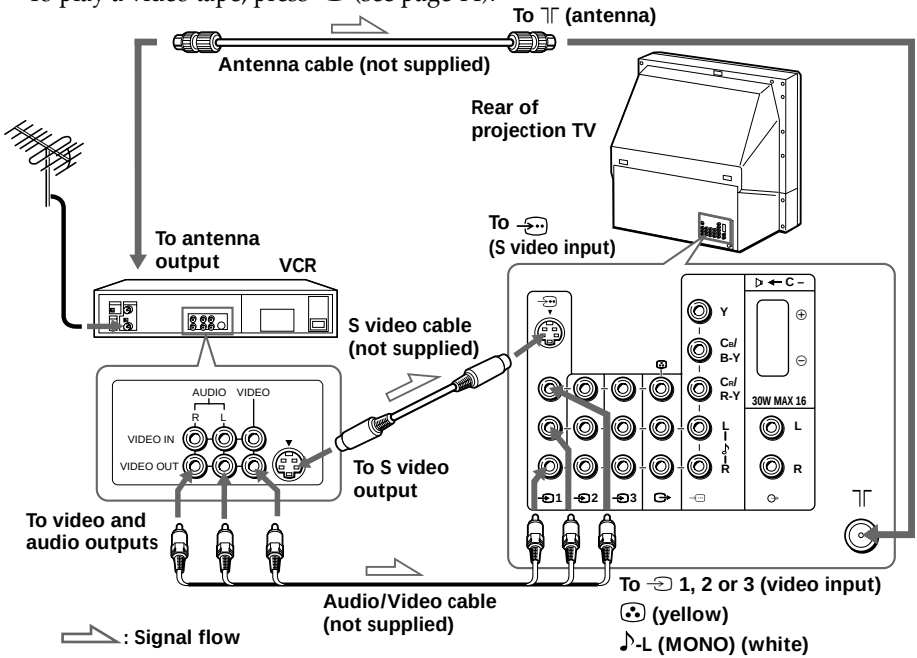
: Signal flow

CAUTION

Do not connect the power cord until all other connections are complete; otherwise, a minimal current leakage through the antenna and/or other terminals to the ground could occur.

Connecting a VCR

To play a video tape, press ⊖ (see page 14).



: Signal flow

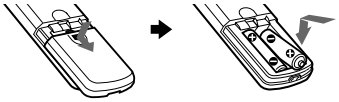
continued

Notes

- If you connect a monaural VCR, connect the yellow plug to (the yellow jack) and the black plug to ♪-L (MONO) (the white jack).
- If you connect a VCR to the ⅂⅂ (antenna) terminal, preset the signal output from the VCR to the program number 0 on the projection TV.
- When both the (S video input) and 1 (video input) are connected, the (S video input) is automatically selected. To view the video input to 1 (video input), disconnect the S video cable.

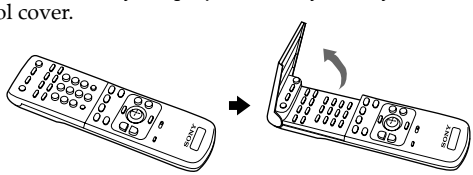
Step 2

Insert the batteries into the remote



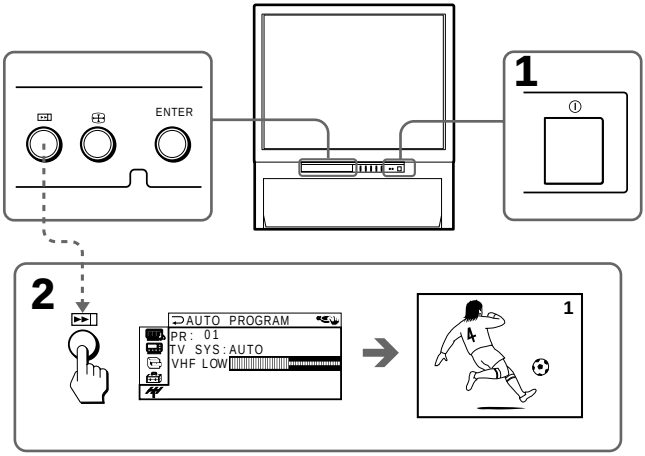
Notes

- Do not use old batteries or different types of batteries together.
- To operate some of the functions of your projection TV, you may have to open the remote control cover.



Step 3

Preset the channels automatically

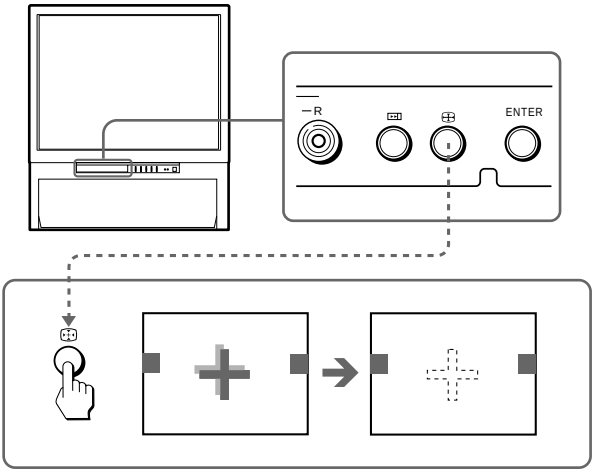


Notes

- To stop the automatic channel presetting, press MENU twice.
- If your projection TV has preset an unwanted channel or cannot preset a particular channel, then preset your projection TV manually (see page 44).

Step 4

Adjusting the convergence automatically



Note

- Adjust convergence about 20 – 30 minutes after the projection TV is first turned on.

  The Digital Quick Focus feature allows you to adjust the convergence automatically.

Automatic convergence adjustment modes

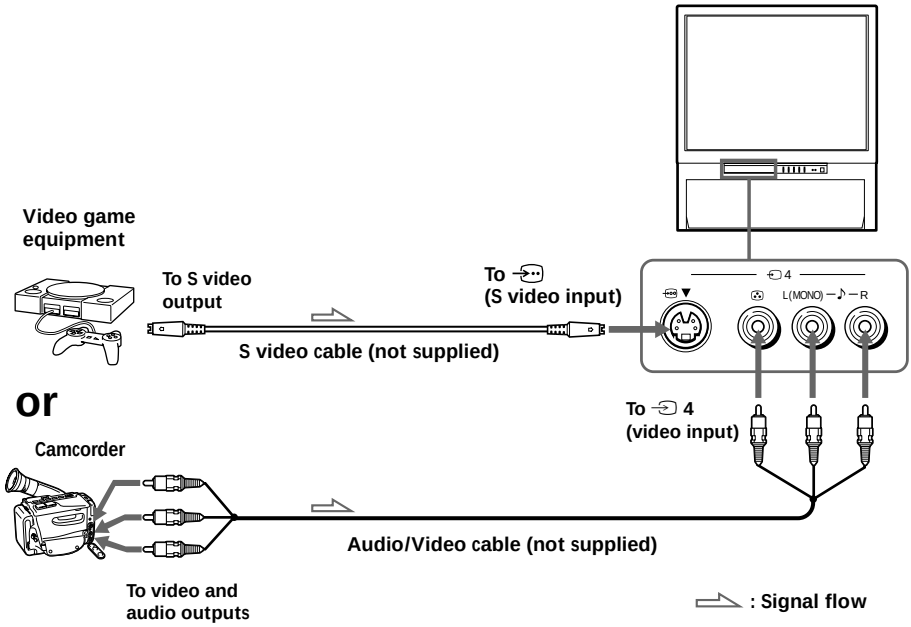
	DRC1250	DRC100	Wide-mode DRC1250
Antenna input signal	○	○	–
Video input signal	○	○	○ (NTSC only)

If the colors do not converge when the above signal is switched, perform the automatic convergence adjustment again.

Connecting optional components

You can connect optional audio/video components, such as a VCR, multi disc player, camcorder, video game, or stereo system. To watch and operate the connected equipment, see pages 14 and 28.

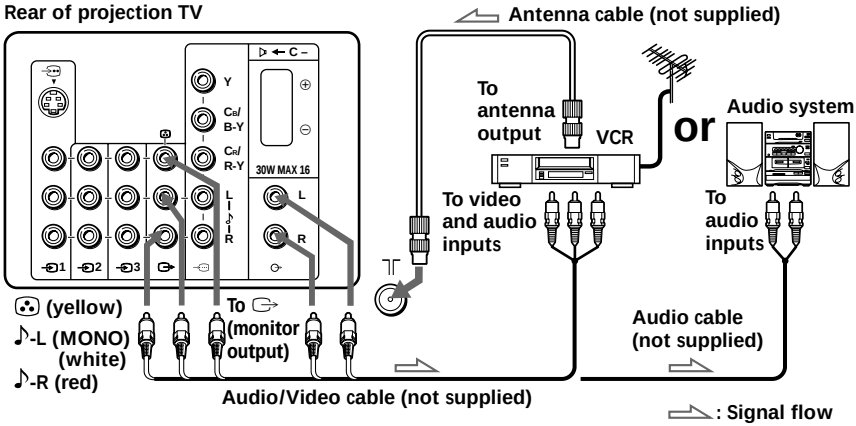
Connecting a camcorder/video game equipment using the ⇨ (video input) jacks



Notes

- When connecting video game equipment, display the "FEATURE" menu and select "ON" for "GAME MODE" to adjust the picture setting that is suitable for video games (see page 39).
- You can also connect video equipment to the ⇨ 1, 2, or 3 (video input) jacks at the rear of your projection TV.
- When both the ⇨ (S video input) and ⇨ 4 (video input) are connected, the ⇨ (S video input) is automatically selected. To view the video input to ⇨ 4 (video input), disconnect the S video cable.

Connecting audio/video equipment using the ⇨ (monitor output) jacks



Note

- If you select "DVD" on your TV screen, no signal will be output at the ⇨ (monitor output) jacks (see page 14).

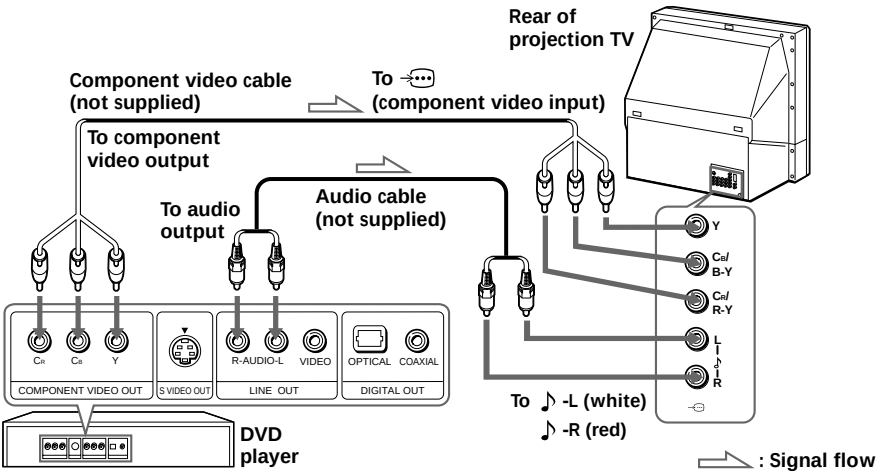
continued

Connecting a DVD player to (component video input)

1 Using an audio cable, connect R and L under (component video input) on your projection TV to the LINE OUT, AUDIO R and L output connectors on your DVD player.

2 Using a component video cable, connect Y, CB/B-Y, and CR/R-Y under (component video input) on your projection TV to the COMPONENT VIDEO OUT Y, CB, and CR output connectors on your DVD player.

3 Press on the remote or the projection TV until "DVD" appears on the screen.



Notes

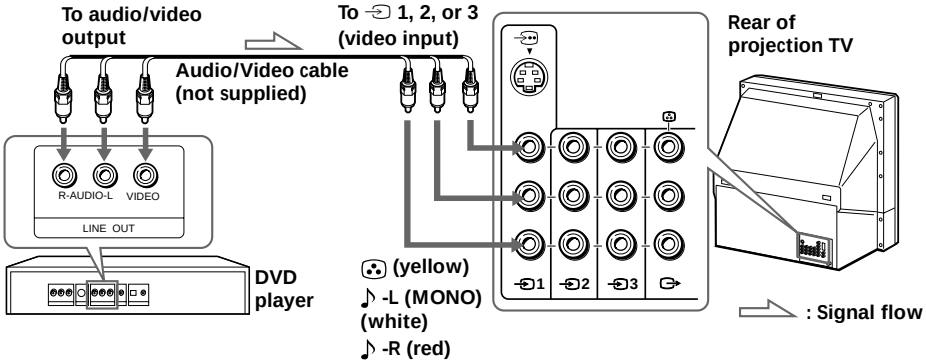
- Some DVD player terminals may be labeled differently:

Connect	To (on the DVD player)
Y (green)	Y
CB/B-Y (blue)	Cb, B-Y or PB
CR/R-Y (red)	Cr, R-Y or PR

- When connecting to (component video input) on your projection TV, you must connect Y, CB, and CR to receive the video signals, and at least connect L and R to receive analog audio signals.
- Your projection TV does not support the progressive scan output of a DVD player.

Connecting a DVD player to ⇨ (video input)

Connect ⇨ 1, 2, or 3 (video input) ♪/📀 (audio/video) connectors on your projection TV to LINE OUT on your DVD player.

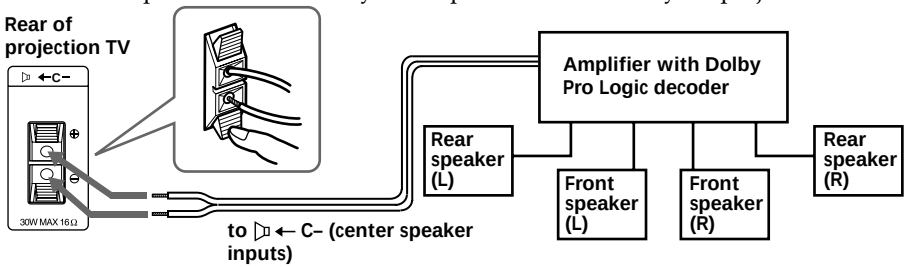


Notes

- Since the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, adjust the sharpness ("SHARP") under "PERSONAL ADJUST" in the "PICTURE MODE" menu (see page 34).
- Connect your DVD player directly to your projection TV. Connecting the DVD player through other video equipment will cause unwanted picture noise.
- If your DVD player can output interlace and progressive mode signals, select the interlace output when connecting to ⇨ (component video input) on your projection TV. Your projection TV can receive either 525i/60 Hz or 625i/50 Hz interlace signals.

Connecting an amplifier with Dolby* Pro Logic decoder to ▷ ← C– (center speaker input)

Connect the speaker terminals on your amplifier to ▷ ← C– on your projection TV.



Note

- When making connection to ▷ ← C– on your projection TV set "SPEAKER: CENTER IN" in the "A/V CONTROL" menu. (see page 33)

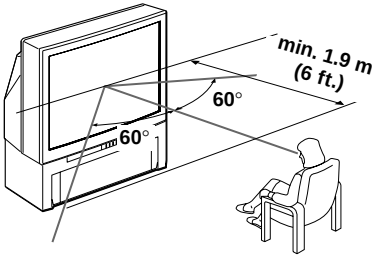
* Manufactured under license from Dolby Laboratories Licensing Corporation.
DOLBY, the double-D symbol ◫ and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

Installing the projection TV

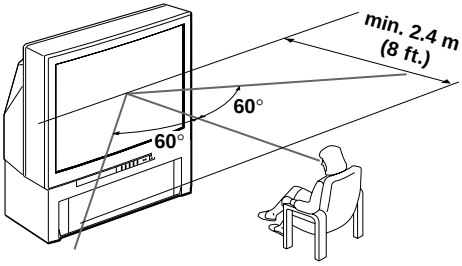
For the best picture quality, install the projection TV within the areas below.

Optimum viewing area (Horizontal)

KP-ER43

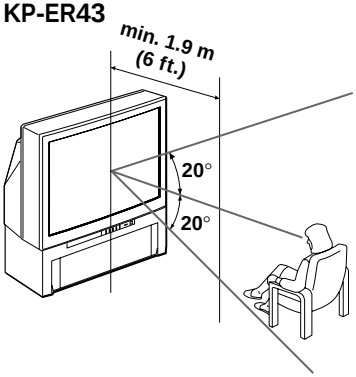


KP-ER53

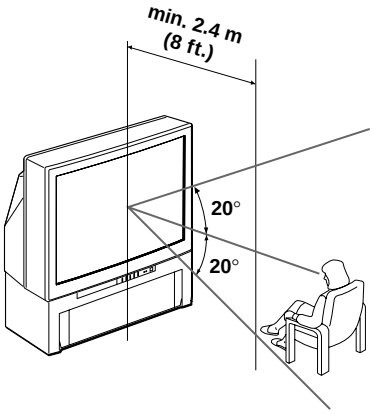


Optimum viewing area (Vertical)

KP-ER43

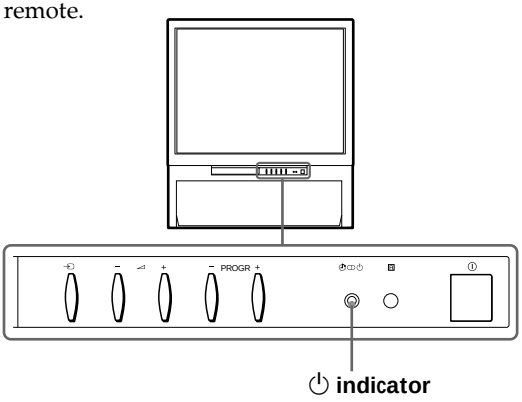


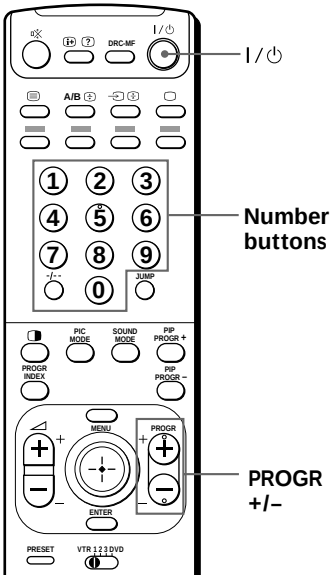
KP-ER53



Watching the TV

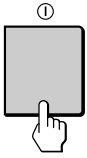
This section explains various functions and operations used while watching the TV. Most operations can be done using the remote.





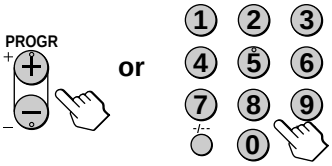
1 Press ⏻ to turn on the projection TV.

When the projection TV is in standby mode (the ⏻ indicator on the projection TV is lit red), press I/⏻ on the remote.



2 Press PROGR +/– or the number buttons to select the TV channel.

For double digit numbers, press -/--, then the number (e.g., for 25, press -/--, then 2 and 5).



Note

- When you turn on the projection TV, either the program number or video mode is displayed for approximately 40 seconds. The ECO MODE (ECO) icon will also appear if "ECO MODE " in the "FEATURE" menu is set "ON" (see page 39).

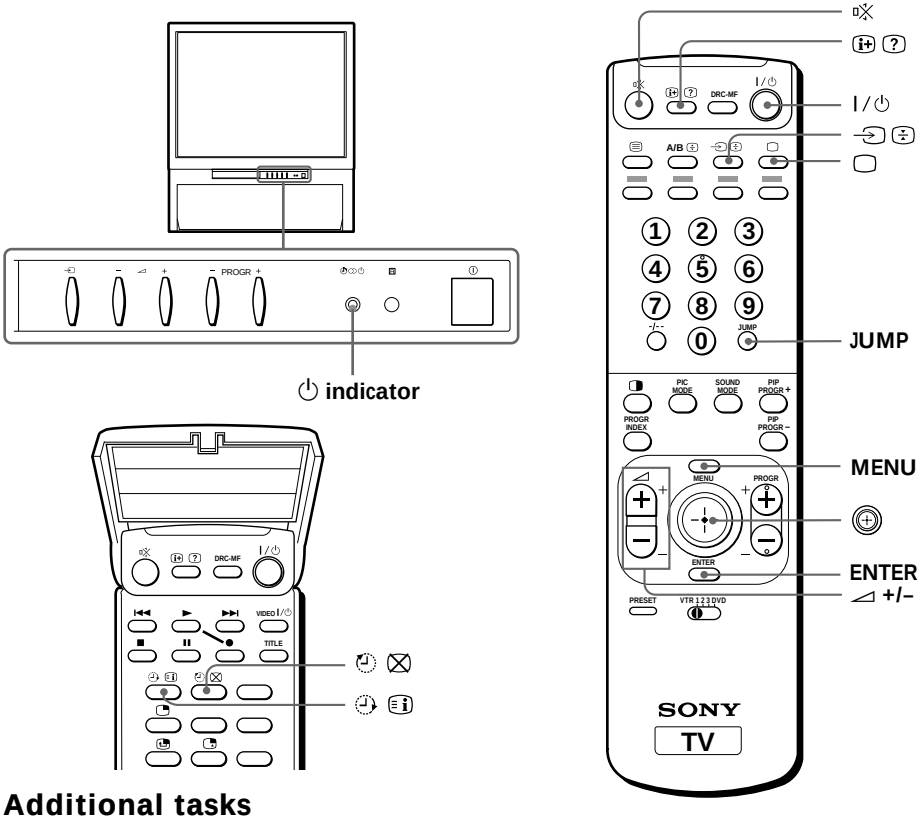
To select a TV program quickly

(1) Press and hold PROGR +/–.
(2) Release PROGR +/– when the desired program number appears.

Note

- When you select a TV program quickly, the picture may be disrupted. This does not indicate a malfunction.

continued



Additional tasks

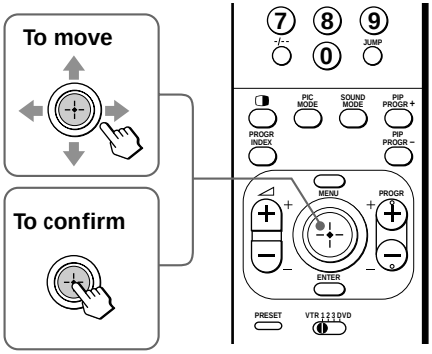
To	Press
Turn off temporarily	I/⏻. The ⏻ indicator on the projection TV lights up red.
Turn off completely	⏻ on the projection TV.
Adjust the volume	+/–.
Mute the sound	🔇.
Watch the video input (VCR, camcorder, etc.)	⏎ (or ⏎ on the projection TV) to select "VIDEO 1", "VIDEO 2", "VIDEO 3", "VIDEO 4" or "DVD". To return to the TV screen, press ▭ (or ⏎ on the projection TV).
Jump back to the previous channel	JUMP.
Display the on-screen information*	i+.

* Some picture/sound settings, and either the program number or video mode are displayed. The on-screen display for the picture/sound settings disappears after about 3 seconds.

Using the Remote Control Button Joystick (⊕)

You can select the menu item on the screen by moving ⊕ up, down, left or right (see page 32).

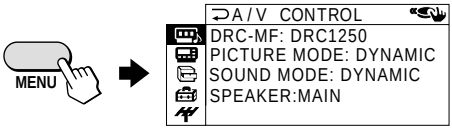
To confirm a selected item, press ⊕. You can also press ENTER on the remote to confirm a selected item.



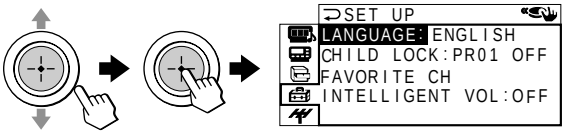
Changing the menu language

You can change the menu language as well as the on-screen language. For details on how to use the menu, see "Introducing the menu system" on page 30.

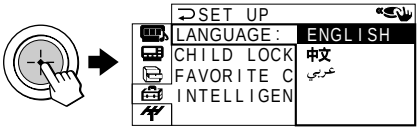
1 Press MENU.



2 Move ⊕ up or down to select 🖴, then press ⊕.

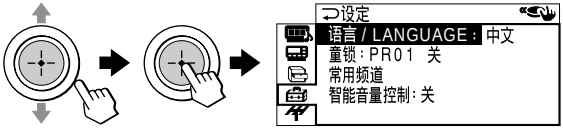


3 Make sure "LANGUAGE" is selected then press ⊕.



4 Move ⊕ up or down to select the desired language (e.g.,"**中文**"), then press ⊕.

The selected menu language appears.



To return to the normal screen

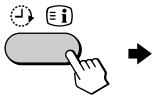
Press MENU.

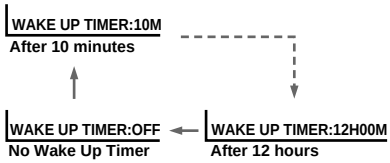
continued

Setting the Wake Up timer

1 Press ◴ until the desired period of time appears.

The Wake Up timer starts immediately after you have set it.





2 Select the TV channel or video mode you want to wake up to.

3 Press I/⏻, or set the Sleep timer if you want the projection TV to turn off automatically.

The ◴ indicator on the projection TV lights up orange.

To cancel the Wake Up timer

Press ◴ until "WAKE UP TIMER: OFF" appears, or turn the projection TV off.

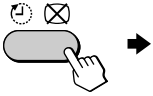
Note

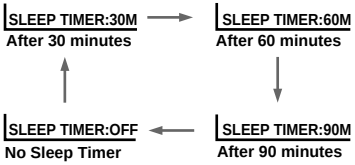
- If no buttons or controls are pressed for more than two hours after the projection TV is turned on using the Wake Up timer, the projection TV automatically goes into standby mode. To resume watching the TV, press any button or control on the projection TV or the remote.

Setting the Sleep timer

Press ◴ until the desired period of time appears.

The Sleep timer starts immediately after you have set it.



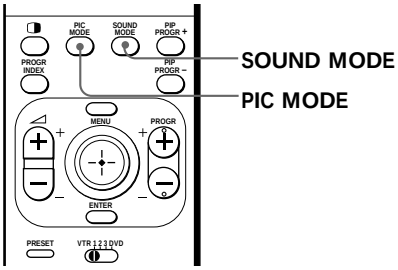


To cancel the Sleep timer

Press ◴ until "SLEEP TIMER: OFF" appears, or turn the projection TV off.

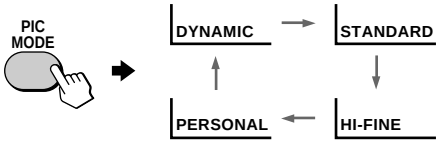
Selecting the picture and sound modes

You can select picture and sound modes and adjust the setting to your preference in the "PERSONAL" option.



Selecting the picture mode

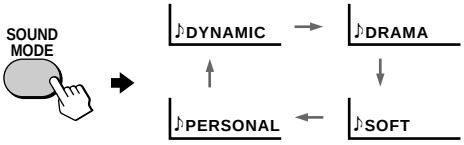
Press PIC MODE repeatedly until the desired picture mode is selected.



Select	To
"DYNAMIC"	receive high contrast pictures.
"STANDARD"	receive normal pictures.
"HI-FINE"	receive higher resolution pictures with mild contrast.
"PERSONAL"	receive the last adjusted picture setting from the "ADJUST" option in the "A/V CONTROL" menu (see page 34).

Selecting the sound mode

Press SOUND MODE repeatedly until the desired sound mode is selected.



Select	To
"DYNAMIC"	listen to dynamic and clear sound that emphasizes both the low and high tones.
"DRAMA"	listen to sound that emphasizes voice and high tones.
"SOFT"	receive soft sound.
"PERSONAL"	receive the last adjusted sound setting from the "ADJUST" option in the "A/V CONTROL" menu (see page 34).

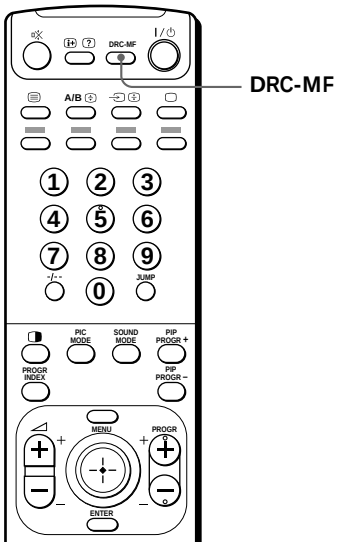
Tip

- You can also set the picture and sound modes using the menu (see "Changing the "A/V CONTROL" setting" on page 33).

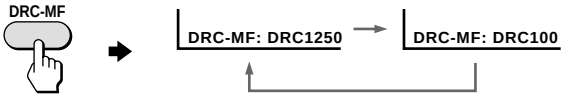
Viewing higher quality pictures

— "DRC-MF"

The Digital Reality Creation-Multi Function (DRC-MF) feature allows you to enjoy higher quality pictures on your projection TV. You can select "DRC1250" to watch super real (higher resolution) pictures, or "DRC100" to reduce flicker if necessary.



Press DRC-MF repeatedly until you receive the desired picture quality.



Select	To
"DRC1250"	select higher resolution pictures.
"DRC100"	reduce flicker on the screen.

Tip

- When the broadcast signal is weak, you may see some dots or noise on the TV screen. To reduce this interference, display the "A/V CONTROL" menu and select "ADJUST" in "PICTURE MODE", then adjust "SHARP" to reduce the sharpness (see page 34).

Note

- The DRC-MF mode is not selectable when using the "PROGRAM INDEX" or "FAVORITE CH" feature, or when the "GAME MODE", Picture-In-Picture ("PIP"), or "TWIN" mode is turned "ON".

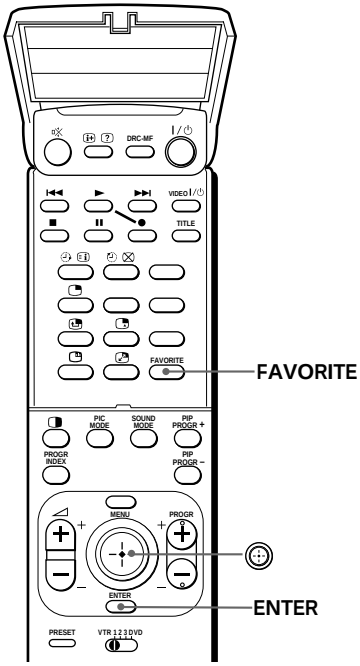
The DRC-MF logo (DRC-MF Digital Reality Creation) and "DRC-MF" are trademarks of Sony Corporation.

Viewing your favorite channels

— "FAVORITE CH"

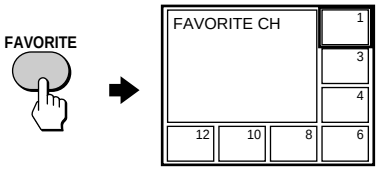
You can display seven favorite channels for quick and easy selection.

The last seven channels selected with the number buttons are displayed in "AUTO" mode. You can set up your own favorite channels in "MANUAL" mode under the "FAVORITE CH" menu (see "Changing the favorite channel setting" on page 42).

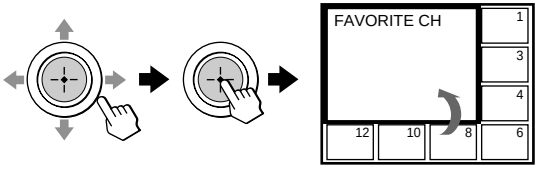


Selecting a favorite channel

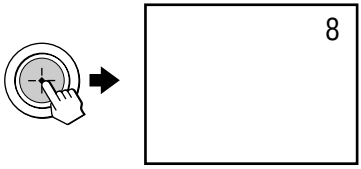
1 Press FAVORITE.



2 Move ⊕ up, down, left or right to select the desired channel (e.g. PR 8), then press ⊕.



3 Press ⊕ again.



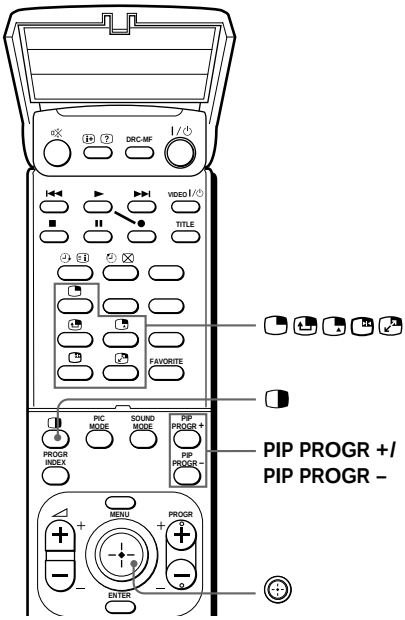
Note

- When you use your projection TV for the first time, seven preset channels appear.

Watching two programs at the same time

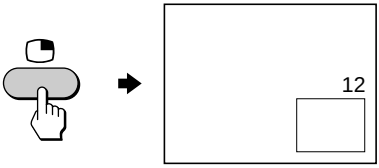
— "PIP", "TWIN"

With the Picture-in-Picture (PIP) or TWIN pictures features, you can display a different TV program or video within or beside the main picture.



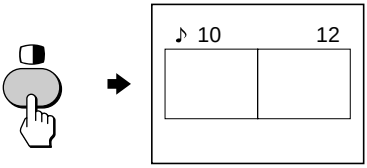
Displaying the PIP screen

Press ◔.



Displaying TWIN pictures

Press ◑.



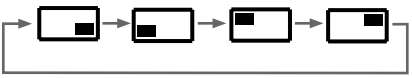
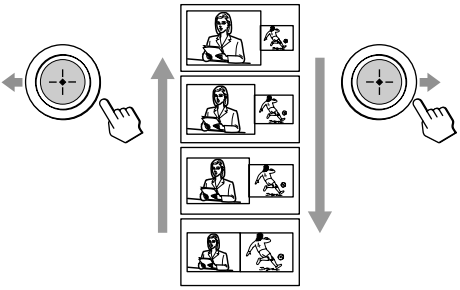
To return to the normal screen

Press ◔ (when in the PIP screen) or ◑ (when in the TWIN picture screen).

Tip

- You can also display the PIP screen or TWIN pictures using the menu (see "Changing the MULTI PICTURE setting" on page 36).

Additional PIP/TWIN pictures tasks

To	Press/Move
change a TV program in the PIP screen or in the right TWIN picture	Press PIP PROGR + or PIP PROGR –. For a video input, press ◔.
swap pictures between the main and PIP screens	Press ◔.
freeze the PIP screen	Press ◔. To unfreeze the screen, press the button again.
change the position of the PIP screen	Press ◔. 
swap the right and left pictures of the TWIN pictures	Press ◔.
change the screen size of the TWIN pictures	Move ⊕ left to increase the left screen size. Move ⊕ right to increase the right screen size. 

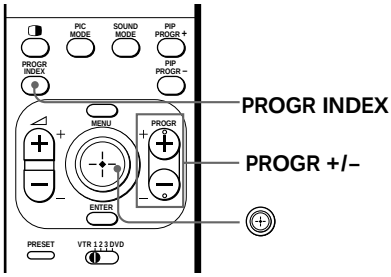
Notes

- The ◔ button does not function in the TWIN pictures mode.
- When you display a video input on the PIP screen at a faster/slower speed, the picture may be disrupted depending on the VCR type.
- If you display different color systems on the main screen and the PIP screen, the size of the PIP screen may be different and the PIP picture may be disrupted. This does not indicate a malfunction of the projection TV.
- In the TWIN picture screen, you can only operate and hear the sound of the main left screen (♪ appears on the screen).
- When the ◑ button is pressed, the TV screen flickers or goes blank for about one second before the TWIN pictures appear. This does not indicate a malfunction of the projection TV.

Displaying multiple programs

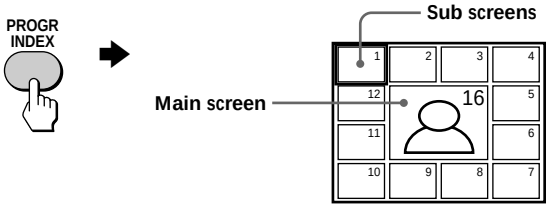
— "PROGRAM INDEX"

The PROGRAM INDEX feature displays all of the preset TV programs on twelve or seven sub screens for direct selection.

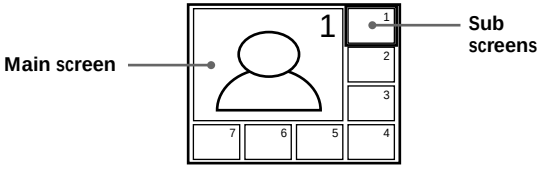


Press PROGR INDEX.

The first twelve preset programs appear one by one, clockwise from the upper left corner.



When the number of the preset TV programs is less than eight, the first seven preset programs appear one by one, clockwise from the upper right corner.



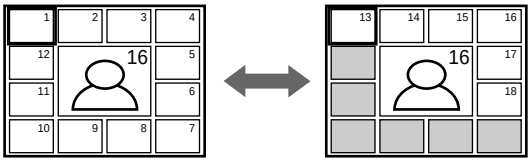
Tip

- When you press the PROGR INDEX button in the TWIN pictures mode, the left picture appears as the main screen of the PROGRAM INDEX mode.

To view the next or the previous twelve preset programs

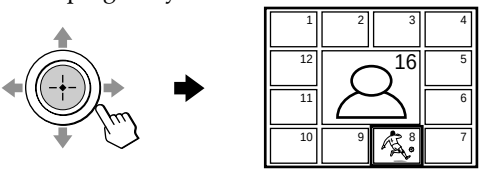
This works only when the number of the preset TV programs is more than twelve.

Press PROGR +/– on the remote or the projection TV.

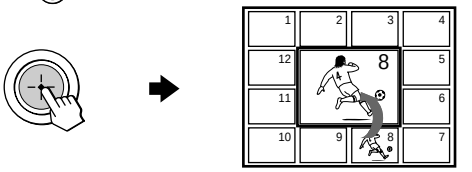


To select the desired program directly from the sub screens

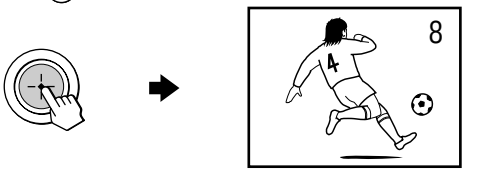
1 Move ⊕ up, down, left or right to move the frame to the screen of the program you want to watch.



2 Press ⊕.



3 Press ⊕ again.



Tip

- Pressing the number buttons directly displays the program.

To return to the normal screen

Press PROGR INDEX again, or:

1 Select "PROGRAM INDEX" from the "MULTI PICTURE" menu.
2 Press ⊕.

Tip

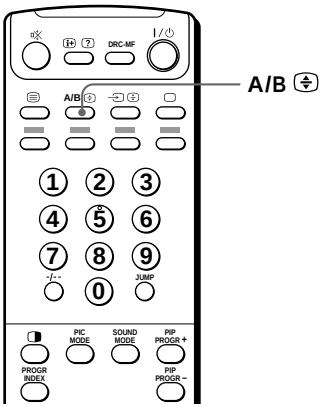
- You can also display multiple programs using the menu (see "Changing the MULTI PICTURE setting" on page 36).

Note

- When displaying multiple programs, only the sound of the main screen is heard.

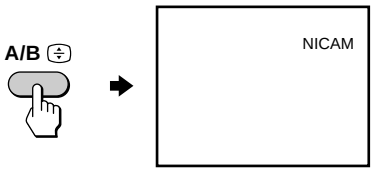
Enjoying stereo or bilingual programs

You can enjoy stereo sound or bilingual programs of NICAM and A2 (German) stereo systems.



Press A/B repeatedly until you receive the sound you want.

The on-screen display changes to show the selected sound and the ⧉ indicator on the projection TV lights up red.



When receiving a NICAM program

Broadcasting	On-screen display (Selected sound)
NICAM stereo	**NICAM** (Stereo sound) → **MONO** (Regular sound)
NICAM bilingual	**NICAM MAIN** (Main sound) → **NICAM SUB** (Sub sound) → **MONO** (Regular sound)
NICAM monaural	**NICAM MAIN** (Main sound) → **MONO** (Regular sound)

When receiving an A2 (German) program

Broadcasting	On-screen display (Selected sound)
A2 (German) stereo	
A2 (German) bilingual	

Receiving area for NICAM and A2 (German) programs

System	Receiving area
NICAM	Hong Kong, Singapore, New Zealand, Malaysia, Thailand, etc.
A2 (German)	Australia, Malaysia, Thailand, etc.

Notes

- If the signal is very weak, the sound becomes monaural automatically.
- If the stereo sound is noisy when receiving a NICAM program, select "MONO". The sound becomes monaural, but the noise is reduced.
- Before receiving a NICAM stereo program in China, please check the NICAM broadcast condition at your area. When receiving a NICAM stereo program, the receiving conditions might vary depending on area. In addition, different strength of the NICAM broadcast signal might affect the receiving quality.

If the sound is distorted or noisy when receiving a monaural program through the ⅂⅂ (antenna) terminal

Press A/B repeatedly until "MONO" appears on the screen.

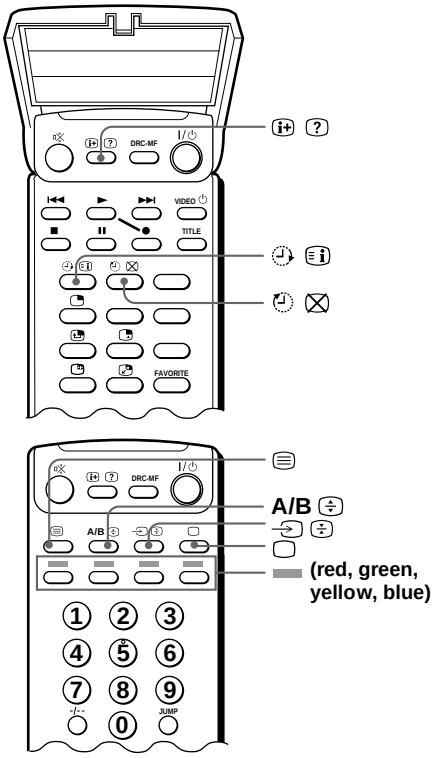
To cancel the monaural sound setting, press A/B again until "AUTO" appears on the screen.

Notes

- The "MONO" or "AUTO" setting is memorized for each program position.
- You cannot receive a stereo broadcast signal when the projection TV is in the "MONO" setting. Normally, set the projection TV to "AUTO".

Viewing Teletext

Some TV stations broadcast an information service called Teletext which allows you to receive various information, such as stock market reports and news.

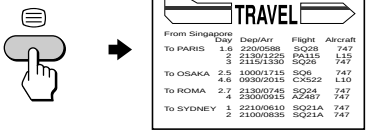


Displaying Teletext

1 Select a TV channel that carries the Teletext broadcast you want to watch.

2 Press ☰ to display the text.

A Teletext page (normally the index page) is displayed. If there is no Teletext broadcast, "100?" is displayed at the top left corner of the screen after approximately 10 seconds.



To turn off Teletext

Press ▭.

Additional Teletext tasks

To	Do this
display a Teletext page on the TV picture	Press ☰. Each time you press ☰ , the screen changes as follows: Teletext → Teletext and TV → TV.
check the contents of a Teletext service	Press ☰i. An overview of the Teletext contents, including page numbers, appears on the screen.
select a Teletext page	Press the number buttons to enter the three-digit page number of the desired Teletext page.* If you make a mistake, reenter the correct page number. To access the next or previous page, press PROGR +/–.
hold (pause) a Teletext page (stop the page from scrolling)	Press ⏸ to display the symbol "⏸" at the top left corner of the screen. To resume normal Teletext viewing, press ⏸ or ☰.
reveal concealed information (e.g., an answer to a quiz)	Press ?. To conceal the information, press the button again.
enlarge the Teletext display	Press ⇕. Each time you press ⇕, the Teletext display changes as follows: Enlarge upper half → Enlarge lower half → Normal size.
stand by for a Teletext page while watching a TV program	1 Enter the Teletext page number that you want to refer to, then press ⊠. 2 When the page number is displayed, press ☰ to show the text.

* You can also select a Teletext page of any page number that appears in the colored column at the bottom of the screen using the corresponding color-coded button on the remote.

Using FASTEXT

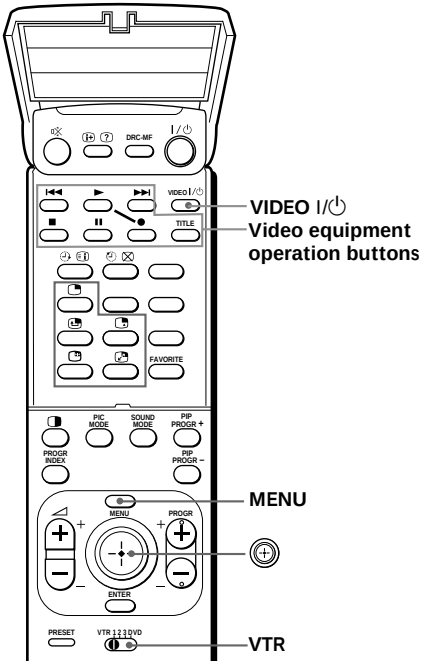
This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT program is broadcast, colored menus appear at the bottom of the screen. The color of each menu corresponds to the color-coded buttons on the remote (red , green , yellow , and blue).

To access a FASTEXT menu

Press the color-coded button on the remote corresponding to the menu you want. The menu page appears on the screen after a few seconds.

Operating optional components

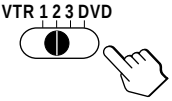
You can use the supplied remote to operate Sony video equipment such as Beta, 8 mm, VHS or DVD.



Setting up the remote to work with other connected equipment

Switch VTR to select the desired equipment type (see the chart below).

For example, to operate a Sony 8 mm VCR:



To control	Select
DVD	DVD
VTR1 (Beta)	1
VTR2 (8 mm)	2
VTR3 (VHS)	3

Notes

- If your video equipment is furnished with a COMMAND MODE selector, set this selector to the same position as the VTR switch.
- If the equipment does not have a certain function, the corresponding button on the remote will not operate.

Operating a VCR using the remote

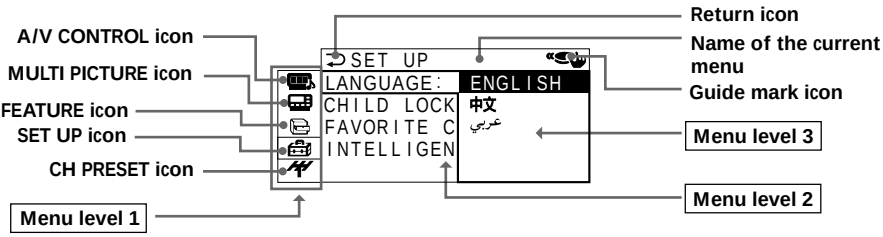
To	Press
turn on/off	VIDEO I /⏻
record	► while pressing ●.
play	►
stop	■
fast forward (▶▶)	▶▶I
rewind the tape (◀◀)	I◀◀
pause	❚❚ Press again to resume normal playback.
search the picture forward (▶▶) or backward (◀◀)	▶▶I or I◀◀ during playback. Release to resume normal playback.

Operating a DVD player using the remote

To	Press
turn on/off	VIDEO I /⏻
play	►
stop	■
pause	❚❚ Press again to resume normal playback.
step through different tracks of an audio disc	▶▶I to step forward or I◀◀ to step backward.
display the title menu	TITLE
display the menu	MENU while holding down ●.
select the menu item	Move ⊕ up, down, left or right while holding down ●.

Introducing the menu system

The MENU button lets you open a menu and change the settings of your projection TV. The following is an overview of the menu system.

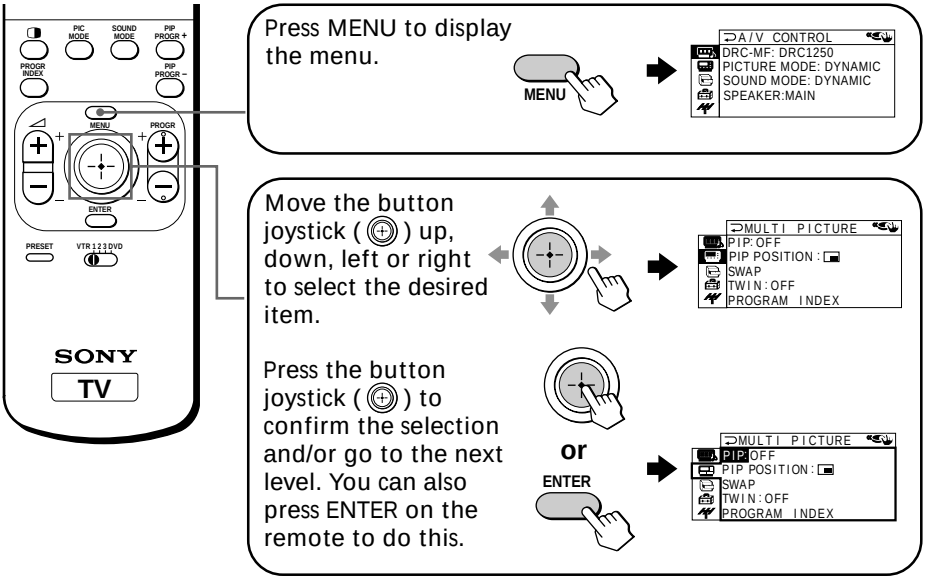


Level 1	Level 2	Level 3/Function
"A/V CONTROL"	"DRC-MF"	Select the "DRC-MF" mode: "DRC1250" → "DRC100"
	"PICTURE MODE"	Select the picture mode: "DYNAMIC" → "STANDARD" → "HI-FINE" → "PERSONAL" → "ADJUST"
	"ADJUST"	Adjust the "PERSONAL" option: "PICTURE" → "COLOR" → "BRIGHT" → "HUE" → "SHARP"
	"SOUND MODE"	Select the sound mode: "DYNAMIC" → "DRAMA" → "SOFT" → "PERSONAL" → "ADJUST"
	"ADJUST"	Adjust the "PERSONAL" option: "BASS" → "TREBLE" → "BALANCE"
	"SPEAKER"	Select the "SPEAKER" mode: "MAIN" → "CENTER IN"
"MULTI PICTURE"	"PIP"	Activate or deactivate the PIP feature.
	"PIP POSITION"	Change the position of the sub screen.
	"SWAP"	Swap the pictures between the main and sub screens.
	"TWIN"	Display a TV program or video beside the main screen.
	"PROGRAM INDEX"	Display all the preset TV programs at the same time.
"FEATURE"	"WIDE MODE"	Activate or deactivate WIDE MODE feature.
	"ECO MODE"	Activate or deactivate ECO MODE feature.
	"GAME MODE"	Activate or deactivate GAME MODE feature.

Level 1	Level 2	Level 3/Function
"SET UP"	"LANGUAGE"	Change the menu language: "ENGLISH" → "中文" (Chinese) → "عربي" (Arabic)
	"CHILD LOCK"	Lock out specific channels.
	"FAVORITE CH"	Set favorite channels.
	"INTELLIGENT VOL"	Adjust the volume automatically.
"CH PRESET"	"AUTO PROGRAM"	Preset channels automatically.
	"MANUAL PROGRAM"	Preset channels manually.
	"SKIP"	Skip unwanted or unused program numbers.
	"TV SYS"	Select the TV system: "B/G" → "I" → "D/K" → " M"
	"COL SYS"	Select the color system: "AUTO" →" PAL" → "SECAM" → "NTSC3.58" → "NTSC4.43"

continued

How to use the menu



Other menu operations

To	Press/Move
Adjust the setting value	Move ⊕ up, down, left or right.
Move to the next/previous menu level	Move ⊕ left or right.
Cancel the menu	Press MENU.

Tips

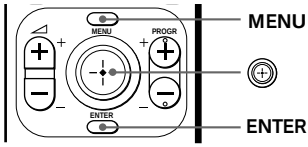
- If you want to exit from Menu level 2 to Menu level 1, move ⊕ up or down until the return icon (⮌) is highlighted, then press ⊕ or ENTER.
- The MENU, ENTER, and ◿ +/– buttons on the projection TV can also be used for the operations above.
- The ↑ + and ↓ – buttons on the projection TV can also be used instead of moving the button joystick (⊕) up or down.

Note

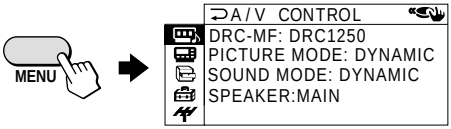
- If more than 60 seconds elapse between entries, the menu screen automatically disappears.

Changing the "A/V CONTROL" setting

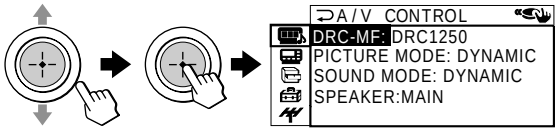
The "A/V CONTROL" menu allows you to adjust the picture and sound settings.



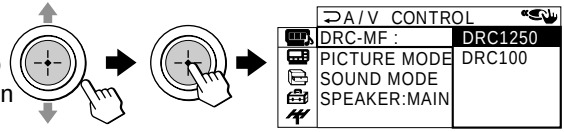
1 Press MENU.



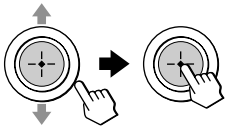
2 Move ⊕ up or down to select , then press ⊕.



3 Move ⊕ up or down to select either "DRC-MF", "PICTURE MODE", "SOUND MODE", or "SPEAKER", then press ⊕.



4 Move ⊕ up or down to select the desired option, then press ⊕.



For	Select
"DRC-MF"	either "DRC1250" or "DRC100".
"PICTURE MODE"	either "DYNAMIC", "STANDARD", "HI-FINE", "PERSONAL"*, or "ADJUST".
"SOUND MODE"	either "DYNAMIC", "DRAMA", "SOFT", "PERSONAL"*, or "ADJUST".
"SPEAKER"	either "MAIN" or "CENTER IN".

* When the "PERSONAL" mode is selected, the last adjusted picture/sound settings from the "ADJUST" option are received (see page 34).

Tip

- For details on the options under the "DRC-MF", "PICTURE MODE"/ "SOUND MODE", and "SPEAKER" modes, see pages 18, 17 and 35 respectively.

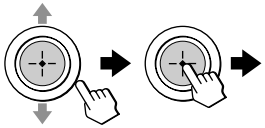
To return to the normal screen

Press MENU.

continued

Adjusting the "ADJUST" options under "PICTURE MODE"

1 Move ⊕ up or down to select the desired item (e.g., "COLOR"), then press ⊕.



2 Adjust the value according to the following table, then press ⊕.

For	Move ⊕ down or left to	Move ⊕ up or right to
"PICTURE"	decrease picture contrast	increase picture contrast
"COLOR"	decrease color intensity	increase color intensity
"BRIGHT"	darken the picture	brighten the picture
"HUE"*	increase red picture tones	increase green picture tones
"SHARP"	soften the picture	sharpen the picture

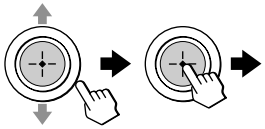
* You can adjust "HUE" for the NTSC color system only.

3 Repeat the above steps to adjust other items.

The adjusted settings will be received when you select "PERSONAL".

Adjusting the "ADJUST" options under "SOUND MODE"

1 Move ⊕ up or down to select the desired item (e.g., "BALANCE"), then press ⊕.



2 Adjust the value according to the following table, then press ⊕.

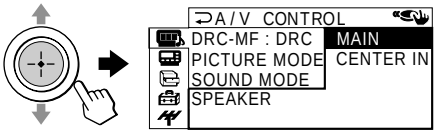
For	Move ⊕
"BASS"	down or left to decrease the bass, up or right to increase the bass.
"TREBLE"	down or left to decrease the treble, up or right to increase the treble.
"BALANCE"	down or left to increase the left speaker's volume, up or right to increase the right speaker's volume.

3 Repeat the above steps to adjust other items.

The adjusted settings will be received when you select "PERSONAL".

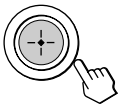
Setting the “SPEAKER” options

1 In the “SPEAKER” menu, move ⊕ up or down to select the desired option (see table below).



Select	To
“MAIN“	listen to the sound from a projection TV.
“CENTER IN”	use the projection TV speakers as center speakers.

2 Press ⊕ to confirm the selected option.

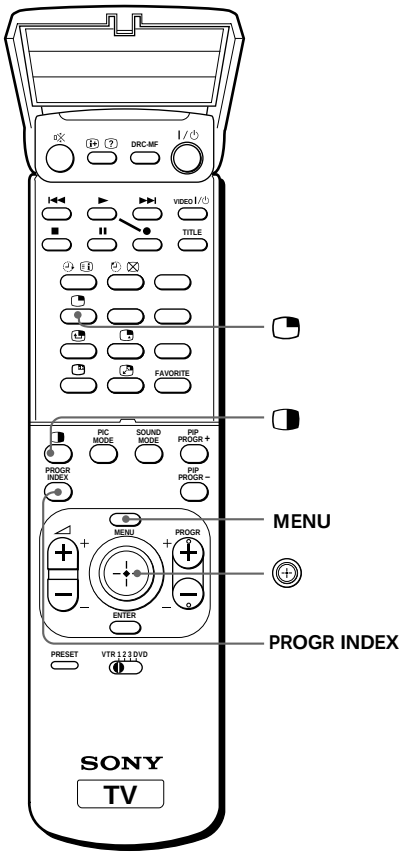


Tip

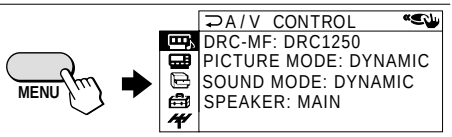
- For details on the menu system and how to use the menu, refer to “Introducing the menu system” on page 30.

Changing the "MULTI PICTURE" setting

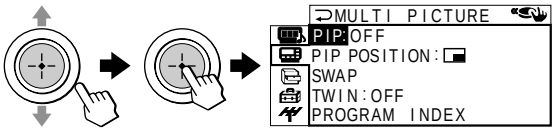
The "MULTI PICTURE" menu allows you to use the Picture-in-Picture (PIP), TWIN pictures, or PROGRAM INDEX features.



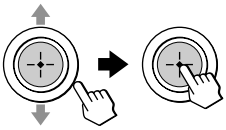
1 Press MENU.

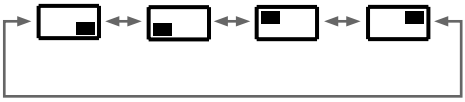


2 Move ⊕ up or down to select , then press ⊕.



3 Move ⊕ up or down to select the desired option (see the table below), then press ⊕.



Select	To
"PIP"	display the PIP screen within the main picture. Move ⊕ up or down to select "ON", then press ⊕. To cancel, press ◔ or select "OFF", then press ⊕.
"PIP POSITION"	change the position of the PIP screen. Move ⊕ up or down to select the desired position, then press ⊕. 
"SWAP"	swap the main and PIP screens, or right and left pictures of the TWIN pictures.
"TWIN"	display a different TV program or video beside the main picture. Move ⊕ up or down to select "ON", then press ⊕. To cancel, press ◑ or select "OFF", then press ⊕.
"PROGRAM INDEX"	view multiple programs on the sub-screens. To cancel, press PROGR INDEX.

To return to the normal screen

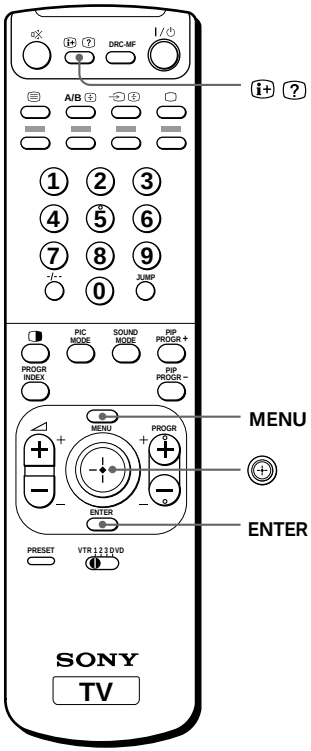
Press MENU.

Tip

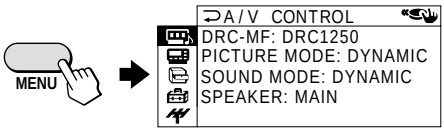
- For details on the menu system and how to use the menu, see "Introducing the menu system" on page 30.

Changing the “FEATURE” setting

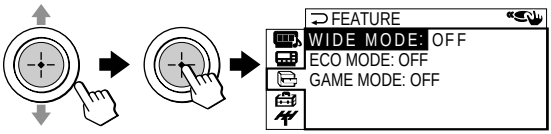
The “FEATURE” menu allows you to change the size of the picture on the screen when receiving wide mode (16:9) picture signals. You can also adjust the picture setting that is suitable for viewing video games, and reduce the power consumption of your projection TV.



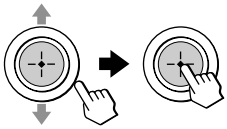
1 Press MENU.

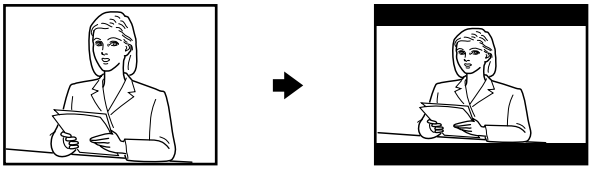


2 Move ⊕ up or down to select 🖼, then press ⊕.



3 Move ⊕ up or down to select the desired option (see the table below), then press ⊕.



Select	To
"WIDE MODE"	change the size of the picture when receiving wide-mode (16:9) picture signal. Move ⊕ up or down to select "ON", then press ⊕.  To restore the normal picture size, select "OFF" then press ⊕.
"ECO MODE"	reduce power consumption of your projection TV to save energy. Move ⊕ up or down to select "ON", then press ⊕. To cancel, select "OFF", then press ⊕.
"GAME MODE"	adjust the picture setting that is suitable to view video games. Move ⊕ up or down to select "ON", then press ⊕. To cancel, select "OFF", then press ⊕.

Notes

- When you turn on "ECO MODE", the picture may become dimmer. Turning "ECO MODE" off will restore the picture to its original setting.
- "WIDE MODE" is available only when you have selected DRC1250 (NTSC mode) in the "A/V CONTROL" menu with video input or DVD input.
- "WIDE MODE" and "GAME MODE" is available only when receiving signals through the (video input), (S video input), or (component video input) jacks at the front and rear of your projection TV.
- If "ECO MODE" is on, the ECO MODE (ECO) icon will appear at the bottom right corner of the screen when you turn on the projection TV or when you press ⓘ on the remote. (See pages 13 and 14)

To return to the normal screen

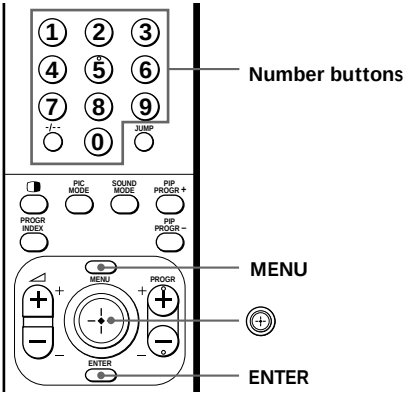
Press MENU.

Tip

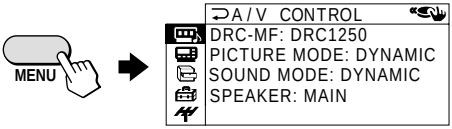
- For details on the menu system and how to use the menu, see "Introducing the menu system" on page 30.

Changing the "SET UP" setting

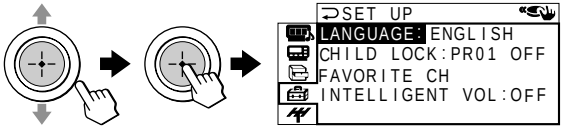
The "SET UP" menu allows you to: change the menu language, block channels, adjust the picture position, program your favorite channels, and adjust the volume automatically.



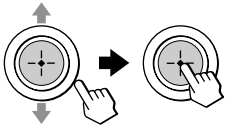
1 Press MENU.



2 Move ⊕ up or down to select 🧰, then press ⊕.



3 Move ⊕ up or down to select the desired option, then press ⊕.



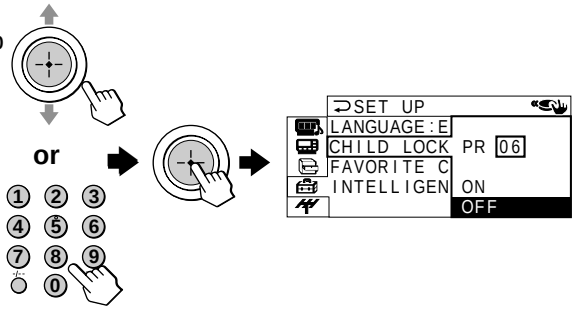
Select	To
"LANGUAGE"	change the menu language (see page 15).
"CHILD LOCK"	block channels (see page 41).
"FAVORITE CH"	select your favorite channels (see pages 19 and 42).
"INTELLIGENT VOL"	adjust the volume of all TV programs automatically. Move ⊕ up or down to select "ON", then press ⊕. To cancel, select "OFF", then press ⊕.

To return to the normal screen

Press MENU.

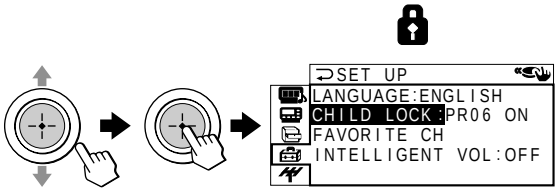
Blocking channels (“CHILD LOCK”)

1 After selecting “CHILD LOCK”, either move ⊕ up or down, or press the number buttons (or PROGR +/–) to select the desired channel (e.g. PR 06), then press ⊕.

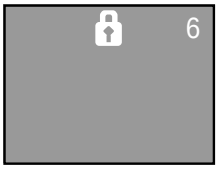


2 Move ⊕ up or down to select “ON”, then press ⊕.
To unlock the channel, select “OFF”.

The lock symbol (🔒) appears on the screen when “ON” is selected.



If a locked channel is selected, the lock symbol appears on the screen.



3 Repeat steps 1 and 2 to lock other channels.

To return to the normal screen

Press MENU.

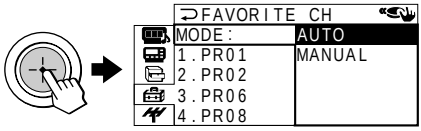
Note

- If you preset a locked channel, that channel will be unlocked automatically (see page 43).

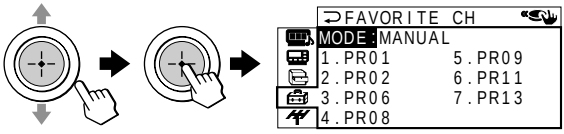
continued

Changing the favorite channel setting

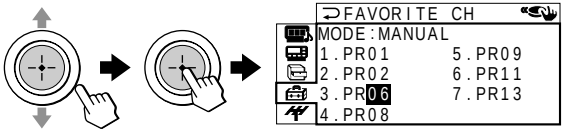
1 After selecting "FAVORITE CH", make sure "MODE" is selected, then press ⊕.



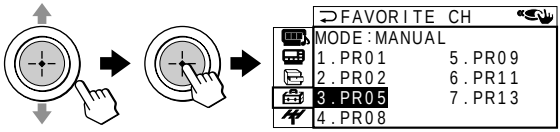
2 Move ⊕ up or down to select "MANUAL", then press ⊕.



3 Move ⊕ up or down to select the program you want to change, then press ⊕.



4 Move ⊕ up or down to change the number, then press ⊕.



5 Repeat steps 3 and 4 to set other channels.

To return to the normal screen

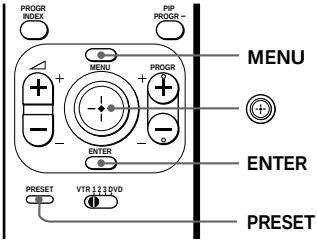
Press MENU.

Note

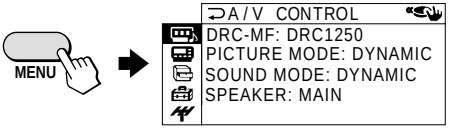
- If you press the PROGR +/– buttons or number buttons in step 4 above, the projection TV will display the channel immediately.

Changing the “CH PRESET” setting

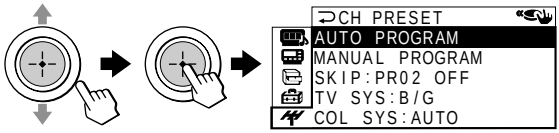
The “CH PRESET” menu allows you to adjust the setup of your projection TV. For example, you can manually tune in a channel with a weak signal that fails to be tuned in by automatic presetting.



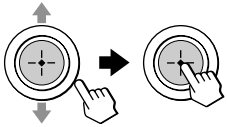
1 Press MENU.



2 Move ⊕ up or down to select ✓, then press ⊕.



3 Move ⊕ up or down to select the desired option, then press ⊕.



Select	To
“AUTO PROGRAM”	preset channels automatically.
“MANUAL PROGRAM”	preset channels manually. See “Presetting channels manually” on page 44.
“SKIP”	skip unwanted or unused channels. 1 Either move ⊕ up or down, or press the number buttons (or PROGR +/–) until the unused or unwanted channel number appears, then press ⊕. 2 Select “ON”, then press ⊕. 3 To disable other channels, repeat steps 1 and 2. To restore the skipped channel, select “OFF” in step 2.
“TV SYS”	select the TV system.
“COL SYS”	select the color system. Normally, set this to “AUTO”.

To return to the normal screen

Press MENU.

Tip

- For details on the menu system and how to use the menu, refer to “Introducing the menu system” on page 30.

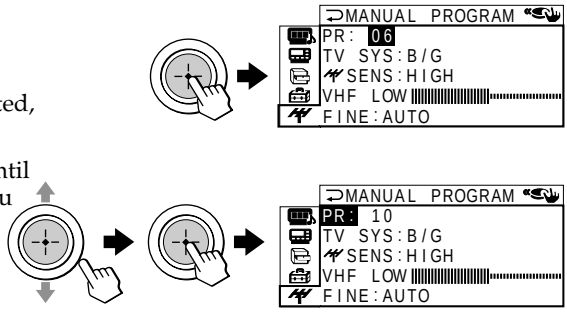
continued

Presetting channels manually

1 After selecting "MANUAL PROGRAM", select the program number to which you want to preset a channel.

(1) Make sure "PR" is selected, then press ⊕.

(2) Move ⊕ up or down until the program number you want to preset (e.g., program number "10") appears on the menu, then press ⊕.



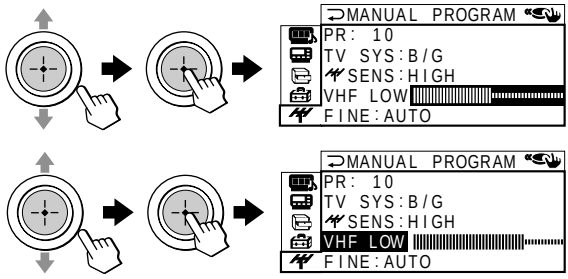
Tips

- You can also select the "MANUAL PROGRAM" menu directly by pressing the PRESET button on the remote.
- You can also select the program number with the PROGR +/– or number buttons.

2 Select the desired channel.

(1) Move ⊕ up or down to select either "VHF LOW", "VHF HIGH", or "UHF", then press ⊕.

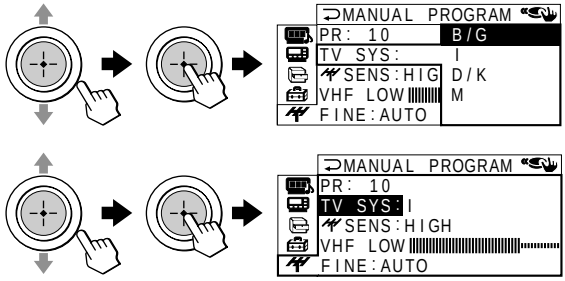
(2) Move ⊕ up or down until the desired channel's broadcast appears on the TV screen, then press ⊕.



3 If the sound of the desired channel is abnormal, select the appropriate TV system.

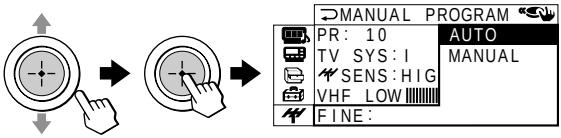
(1) Move ⊕ up or down to select "TV SYS", then press ⊕.

(2) Move ⊕ up or down until the sound becomes normal, then press ⊕.

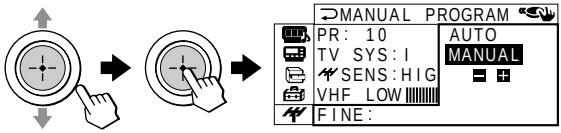


4 If you are not satisfied with the picture and sound quality, you may be able to improve them by using the "FINE" tuning feature.

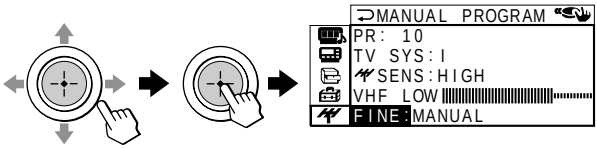
(1) Move ⊕ up or down to select "FINE", then press ⊕.



(2) Move ⊕ up or down to select "MANUAL", then press ⊕.

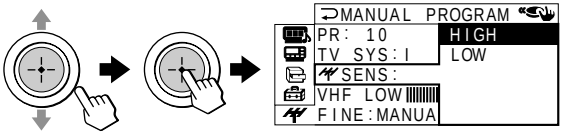


(3) Move ⊕ either up, down, left or right until the picture and sound quality are optimal, then press ⊕. The + or – icon on the menu flashes while tuning.

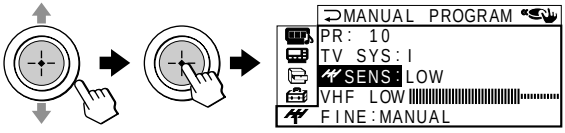


5 If the TV signal is too strong and the picture is distorted, you can adjust the TV reception sensitivity.

(1) Move ⊕ up or down to select "SENS", then press ⊕.



(2) Move ⊕ up or down to select "LOW", then press ⊕.



To return to the normal screen

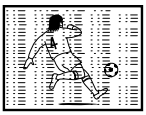
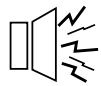
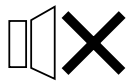
Press MENU.

Notes

- The TV system ("TV SYS") and the TV reception sensitivity ("SENS") settings are memorized for each program number.
- If you preset a locked channel, that channel will be unlocked automatically (see page 41).

Troubleshooting

If you have any problem while viewing your TV, please check the following troubleshooting guide. If the problem persists, contact your Sony dealer.

Symptom	Possible cause	Solutions	Page
Snowy picture  **Noisy sound** 	• The connection is loose or the cable is damaged.	• Check the antenna cable and connection on the projection TV, VCR and at the wall.	5
	• Channel presetting is inappropriate or incomplete.	• Press the PRESET button to display the “MANUAL PROGRAM” menu and preset the channel again.	44
	• The antenna type is inappropriate.	• Check the antenna type (VHF/UHF). Contact a Sony dealer for advice.	–
	• The antenna direction needs adjustment.	• Adjust the antenna direction. Contact a Sony dealer for advice.	–
	• Signal transmission is low.	• Try using a booster.	–
Distorted picture **Noisy sound** 	• Broadcast signals are too strong.	• Press the PRESET button to display the “MANUAL PROGRAM” menu. Then, select “ SENS: LOW”. • Turn off or disconnect the booster if it is in use.	45 –
Good picture **Noisy sound** 	• The TV system setting is inappropriate.	• If the sound of all the channels are noisy, display the “CH PRESET” menu and select “AUTO PROGRAM” to preset the channels again. • If the sound of some channels is noisy, select the channel, then display the “CH PRESET” menu and select the appropriate TV system (“TV SYS”).	43 44
No picture **No sound** 	• The power cord, antenna or VCR is not connected.	• Check the power cord, antenna and the VCR connections.	5
	• The projection TV is not turned on.	• Press I/⏻ on the remote. • Press ⏻ on the TV to turn off the projection TV for about five seconds, then turn it on again.	13 14

Symptom	Possible cause	Solutions	Page
Good picture 	• The volume level is too low.	• Press ◿ + to increase the volume level.	14
	• The sound is muted.	• Press 🔇 to cancel the muting.	14
	• The broadcast signal has a transmission problem.	• Press A/B until a better sound is heard.	24
No sound 	• The "SPEAKER" setting in the "AV CONTROL" menu is inappropriate.	• When connecting to ▷ ← C– (center speaker input) on your projection TV to use the projection TV speakers as center speakers, set SPEAKER: CENTER IN, or set SPEAKER: MAIN to listen to the sound from a projection TV.	35
Dotted lines or stripes 	• There is local interference from cars, neon signs, hair dryers, power generators, etc.	• Do not use a hair dryer or other equipment near the projection TV. • Adjust the antenna direction for minimum interference. Contact a Sony dealer for advice.	– –
Double images or "ghosts" 	• Broadcast signals are reflected by nearby mountains or buildings.	• Use a highly directional antenna. • Use the fine tuning ("FINE") function.	– 45
	• The antenna direction needs adjustment.	• Adjust the antenna direction. Contact a Sony dealer for advice.	–
	• Use of a booster is inappropriate.	• Turn off or disconnect the booster if it is in use.	–
No color 	• The color level setting is too low.	• Display the "A/V CONTROL" menu and select "ADJUST" of "PICTURE MODE", then adjust the "COLOR" level.	34
	• The color system setting is inappropriate.	• Display the "CH PRESET" menu and check the color system ("COL SYS") setting (usually set this to "AUTO").	43
	• The antenna direction needs adjustment.	• Adjust the antenna direction. Contact a Sony dealer for advice.	–
Abnormal color patches 	• The magnetic disturbance from external speakers or other equipment, or the direction of the earth's magnetic field may affect the projection TV.	• Locate external speakers or other equipment away from the projection TV. Do not move the projection TV while the projection TV is turned on. Press ⏻ on the projection TV to turn off the TV for about five minutes, then turn it on again.	–

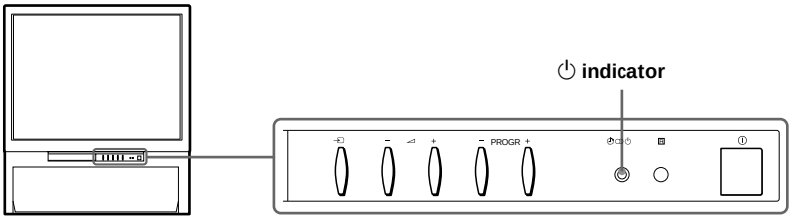
continued

Symptom	Possible cause	Solutions	Page
Projection TV cannot receive stereo broadcast signal.	• The stereo reception setting is inappropriate.	• Press A/B until "AUTO" appears on the screen.	24
Stereo broadcast sound switches on and off or is distorted.	• The connection is loose or the cable is damaged.	• Check the antenna cable and connection on the projection TV, VCR and on the wall.	5
or	• The antenna direction needs adjustment.	• Adjust the antenna direction. Contact a Sony dealer for advice.	–
The sound switches between stereo and monaural frequently.	• The broadcast signal has a transmission problem.	• Press A/B until a better sound is heard.	24
"100?" appears at the top of the screen after approximately 10 seconds and there is no Teletext display.	• The channel carries no Teletext broadcast.	—	26
Teletext display is incomplete (snowy picture or double images).	• Connection is loose or the cable is damaged.	• Check the antenna cable and connection on the projection TV, VCR, and at the wall.	5
	• The antenna direction is inappropriate.	• Adjust the antenna direction. Contact a Sony dealer for advice.	–
	• Signal transmission is too low.	• Try using a booster. • Use the fine tuning ("FINE") function.	– 45
Lines moving across the TV screen.	• There is interference from external sources, e.g., heavy machineries, nearby broadcast station.	• Use the fine tuning ("FINE") function.	45
Cannot play shooting games.	• Some shooting games which involve pointing a light beam at the projection TV screen with an electronic gun or rifle cannot be used with your TV. For detail, see the instruction manual supplied with the video game software.	—	–

Symptom	Possible cause	Solutions	Page
TV cabinet creaks.	• Changes in room temperature sometimes make the TV cabinet expand or contract, causing a noise. This does not indicate a malfunction.	—	–
Static discharge is felt when touching the TV cabinet.	• This is the same static discharge that is felt when touching metal door handles or car doors especially when the air is dry, for example in winter. This does not indicate a malfunction.	—	–

Self-diagnosis function

Your projection TV is equipped with a self-diagnosis function. If there is a problem with your projection TV, the ⏻ (standby) indicator flashes red. The number of times the ⏻ indicator flashes indicates the possible causes.



1 Check that the ⏻ indicator flashes red a number of times between 3-second intervals.

2 Count the number of times the ⏻ indicator flashes.

3 Press ⏻ (main power) to turn off your projection TV.

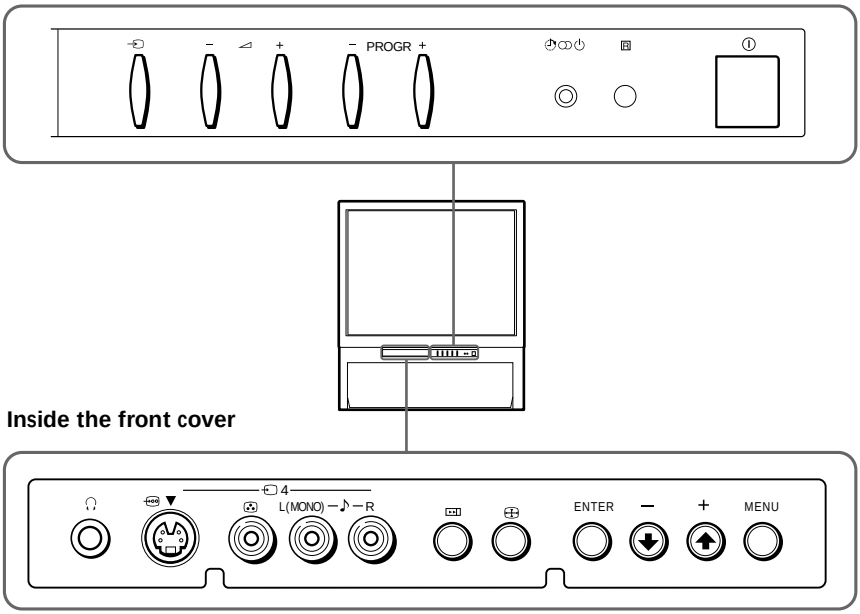
4 Inform your nearest Sony service center about the number of times the ⏻ indicator flashed.

Be sure to note the model name and serial number located on the rear of your projection TV.

Identifying parts and controls

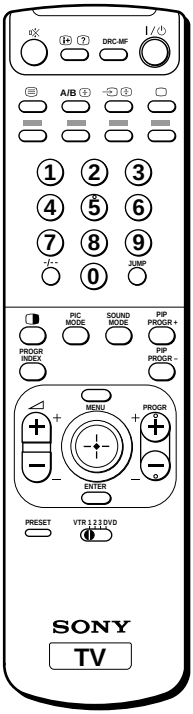
Front and inside the front cover

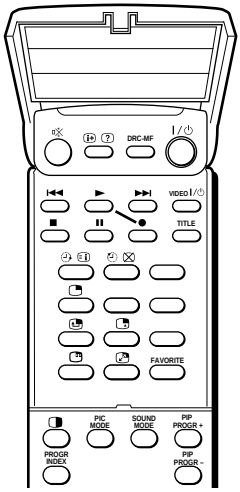
Front panel



Button	Function	Page
Front panel		
⏻	Turn off completely or turn on the projection TV.	13
PROGR +/–	Select program number.	13
+/–	Adjust volume.	14
	Select TV or video input.	14
Inside the front cover		
MENU	Display the menu.	32
ENTER	Confirm selected items.	32
	Adjust convergence.	7
	Preset channel automatically.	6
+/–	Select menu item.	32
	Headphone jack	–

Remote control



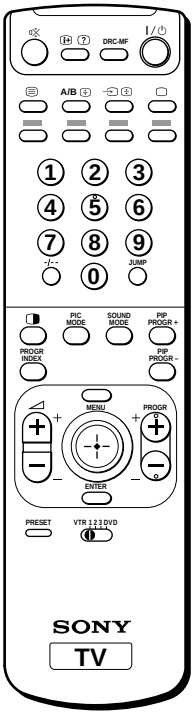


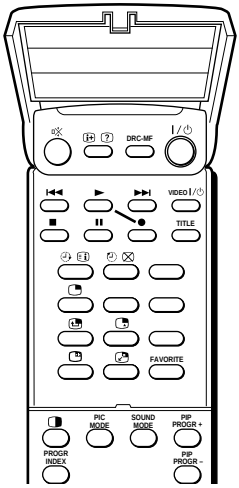
The names/symbols of buttons on the remote are indicated in different colors to represent the available functions.

Label color	Button function
White	For general TV operations
Green	For Teletext operations
Yellow	For PIP operations

Button	Function	Page
I / ⏻	Turn off temporarily or turn on the projection TV.	13
PROGR +/–	Select program number.	13
0 – 9, -/--	Input numbers.	13
ⓘ	Display on-screen information.	14
🔇	Mute the sound.	14
▭	Display the TV program.	14
⇨	Select TV or video input.	14
🔊 +/–	Adjust volume.	14
JUMP	Jump to previous channel.	14
Timer operations		
⏲	Set projection TV to turn on automatically.	16
⏲	Set projection TV to turn off automatically.	16
SOUND MODE	Select sound mode.	17
PIC MODE	Select picture mode.	17
DRC-MF	Select DRC-MF mode.	18
Favorite Channel operations		
FAVORITE	Display favorite channels.	19
⊕	Select desired channel.	19
PIP and Twin picture operations		
▭	Display the PIP screen.	20
▭	Display TWIN pictures.	20
⊕	Adjust Twin picture size.	21
PIP PROGR +/ PIP PROGR –	Change program in PIP/ Twin picture.	21
▭	Select video input for PIP/ Twin picture.	21
▭	Swap main and PIP/Twin picture.	21
▭	Freeze PIP screen.	21
▭	Adjust position of PIP screen.	21

continued





Button	Function	Page
Program Index operations		
PROGR INDEX	Display all preset TV programs.	22
PROGR +/–	View next/previous 12 TV programs.	22
⊕	Select desired channel.	23
Stereo/bilingual operations		
A/B	Select stereo/bilingual mode.	24
Teletext operations		
☰	Display Teletext broadcast.	26
☰i	Display Teletext service contents.	27
⊕	Stop Teletext page from scrolling.	27
?	Reveal concealed information.	27
⊕	Enlarge the Teletext display.	27
⊠	Show TV screen while waiting for Teletext page.	27
0 - 9	Input Teletext page number.	27
PROGR +/–	Display the next or previous page.	27
(red, green, yellow, blue)	Access a FASTEXT menu.	27
Optional components operations		
VTR	Set up the remote.	28
VIDEO I/⏻	Power.	29
TITLE	Display the title menu.	29
►	Play.	29
►►I	Fast forward/Search forward.	29
I◄◄	Rewind/Search backward.	29
●	Record.	29
■	Stop.	29
II	Pause.	29
Menu operations		
MENU	Display the menu.	32
⊕	Select, adjust and confirm selected items.	32
ENTER	Confirm selected items.	32
PRESET	Display “MANUAL PROGRAM” menu.	44